ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATI	ONS
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Applica	[PC-Po	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD FEB 2 4 1997
	Check [B]	One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PC CONSERVATION DIVISION OLD CONSERVATION DIVISION OLD CONSERVATION DIVISION OLD CONSERVATION DIVISION OLD CONSERVATION DIVISION
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR
[2]	NOTIFICAT [A]	TON REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners
	[B]	☐ Offset Operators, Leaseholders or Surface Owner
	[C]	☐ Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I herel	oy certify that I,	, or personnel under my supervision, have read and complied with all applicable Ru

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

	>
Peggy Bradfield	Madhield
Print or Type Name	Signature

Regulatory/Compliance Administrator

Z-20 97

BURLINGTON RESOURCES

SAN JUAN DIVISION

February 20, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re:

Sunray D #2R

1065'FNL, 1000'FEL Section 21, T-30-N, R-10-W, San Juan County, NM

API #30-045-23862

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Pictured Cliffs and Blanco Mesa Verde in the subject well. This is well was originally drilled as a Pictured Cliffs/Mesa Verde dual; it is intended to commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- C-102 plat for each zone showing its spacing unit and acreage dedication;
- Production curve for Pictured Cliffs and Mesa Verde for at least one year;
- Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Pictured Cliffs

Madfield

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

encs.

XC:

Bureau of Land Management

DISTRICT I

Operator

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

Burlington Resources Oil & Gas Company

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

Form C-107-A New 3-12-96

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPLICATION FOR DOWNHOLE COMMINGLING

Address

_x_YES ___NO PO Box 4289, Farmington, NM 87499

1. Pool Name and Pool Code 2. Top and Bottom of Pay Section (Perforations) 3. Type of production (Perforations) 4. Method of Production (Flowing or Artificial Lift) 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Measured Current Measured Current Measured Original 6. Oil Gravity (°API) or Gas BTU Content 7. Producing or Shut-In? Production Marginal? (yes or no) * If Shut-In and oil/gas/water rates of last production * If Shut-In and oil/gas/water rates of last production * If Producing, give data and oil/gas/water water of recent test (within 60 days) 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) • If allocation formula is based upon attachments with supporting data and oil/gas/water water of recent test (within 60 days) 1. If allocation formula is based upon attachments with supporting data and oil/gas/water water of recent test (within 60 days) 1. If allocation formula is based upon attachments with supporting data and oil of %'s to equal 100%) 2. If allocation formula is based upon attachments with supporting data and oil of %'s to equal 100%) 3. Type of production formula is based upon attachments with supporting data and oil of %'s to equal 100%) 4. If allocation formula is based upon attachments with supporting data and oil of %'s to equal 100%) 5. If allocation formula is based upon attachments with supporting data and oil of %'s to equal 100%)	7566 API NO30-0 Upper Zone anco Pictured Cliffs - 7235	45-23862Federalx, State	County Spacing Unit Lease Types: (check 1 or more) ate, (and/or) Fee Lower Zone Blanco Mesaverde - 72319 5142-5553' gas flowing a. 381 psi (see attachment) b. 617 psi (see attachment)
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code 2. Top and Bottom of Pay Section (Perforations) 3. Type of production (Oil or Gas) 4. Method of Production (Flowing or Artificial Lift) 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content 7. Producing or Shut-In? Production Marginal? (yes or no) * If Shut-In and oil/gas/water rates of last production * If Shut-In and oil/gas/water rates of last production * If Producing, give data and oil/gas/water water of recent test (within 60 days) 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) 9. If allocation formula is based upon attachments with supporting data and oil/gas/water water of recent test (within 60 days) 9. If allocation formula is based upon attachments with supporting data and oil/gas/water water of recent test (within 60 days) 9. If allocation formula is based upon attachments with supporting data and oil/gas/water water of recent test (within 60 days) 9. If allocation formula is based upon attachments with supporting data and Oil/gas/water water of recent test (within 60 days)	Upper Zone anco Pictured Cliffs - 7235 64-3066' s wing Current) 346 psi (see attachment) Original) 926 psi (see attachment)	Intermediate Zone 9 a.	Lower Zone Blanco Mesaverde - 72319 5142-5553' gas flowing a. 381 psi (see attachment) b. 617 psi (see attachment)
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5. NMOCD Reference Cases for Rule 30	03(D) Exceptions: ORD	R NO(S). s spacing unit and acreage dediar. (If not available, attach exproduction rates and supporting interests for uncommon interequired to support commingling.	
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GIGNATURE Mary Ellen Lu			
YPE OR PRINT NAMEMary Elle	-		

THEREY AND MINERALS DEPARTMENT

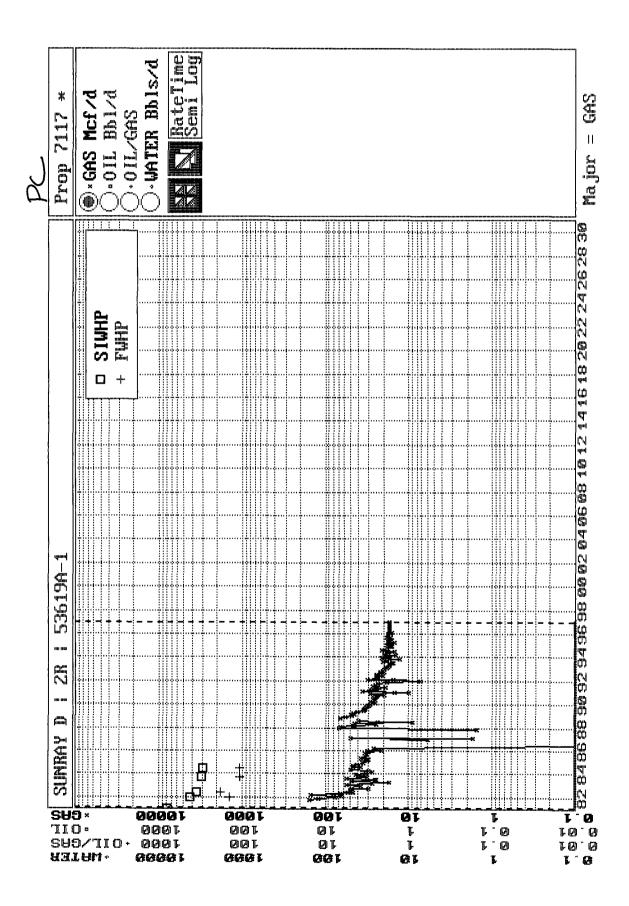
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

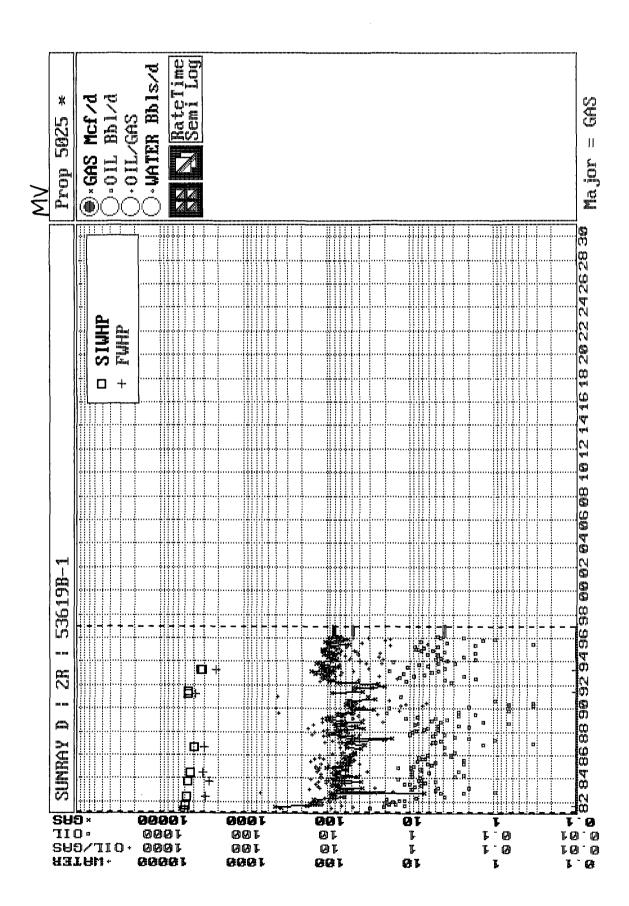
Form C-102

All distances must be from the cuter boundaries of the Section.

kevised 40-1-78

EL PASO NATURAL GAS COMPANY South Section A Section Footsque Lecretion of Well: 1055
Actual Footoge Location of Wells 1055 Seet from the North Line and 1000 Seet from the East Line 6343 Production Formation : .S.A VERUE Post SLAICO JUNEA VERUE 6343 Production Formation : .S.A VERUE Post SLAICO JUNEA VERUE 6344 Seet from the California Line and L
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1005 feet from the North line and 1000 feet from the East line
Ground Level Elev. Producing Formetten. ISA VENDE BLANCO FIESA VENDE BLANCO FIESA VENDE BLANCO PICTURED CLIFFS EXT. Dedicated Acreeage: 165, 04 2 326, 44 Acreea 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes;" type of consolidation If answer is "no;" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Derivation of the complete to the best of my knowledge and belief. Elimipaso Natural Gas Co. Sepatamber 20, 1979 Dotte
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under my supervision, and that the same
is true and correct to the best of my
knowledge and belief.
<u> </u>
Date Surveyed
\mathbf{A}
Begistered States (and Engineer)
and/or Lind Surveyor \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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Fred Boller Jr
Fred B Kerr Jr Certificate to 8 KERN 330 660 90 1320 1650 1980 2310 2640 2000 1500 1000 500 0 3950



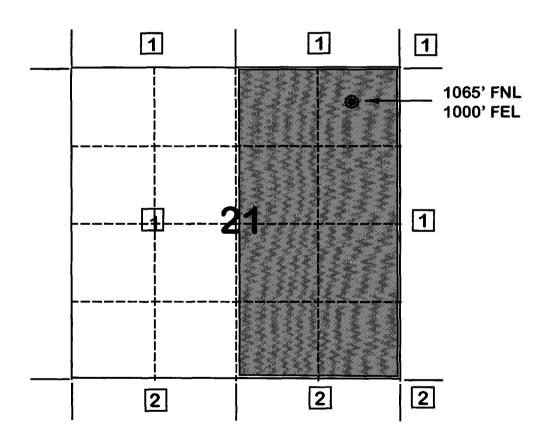


BURLINGTON RESOURCES OIL AND GAS COMPANY

Sunray D #2R OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2)/Pictured Cliffs (NE/4) Formations Commingle Well

Township 30 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Amoco Production Company

Attn: Bruce Zimney

P.O. Box 800

Denver, CO 80201

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	С
%N2	0.34
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	330
BOTTOMHOLE PRESSURE (PSIA)	381.0

SUNRAY D 2R MESAVERDE - (CURRENT)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION to 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	С
%N2	0.34
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	531
BOTTOMHOLE PRESSURE (PSIA)	616.5

SUNRAY D 2R MESAVERDE - (ORIGINAL)

Organize Data ScreenGraph Economics Report Plot Utility
Browsing: SUNRAY D | 2R | 53619B-1 Property No.: 50
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/11/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203 Ouit Property No.: 5025

<u>DATE</u>	CUM_GAS	M_SIWHP
	Mcf	Psi
03/11/81	0	531.0
03/25/81	0	532.0
08/10/81	23647	508.0
05/13/82	63393	481.0
09/15/83	93739	464.0
06/05/84	113164	441.0
08/21/86	155233	390.0
04/08/91	243033	479.0
05/20/91	245710	467.0
04/15/93	298520	318.0
04/20/93	295843	330.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION to 3/13/94

0.66
С
0.35
0.35
0
1.25
5654
60
110
0
302
345.8

SUNRAY D 2R PICTURED CLIFFS - (ORIGINAL)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.35
%CO2	0.35
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	798
	-
BOTTOMHOLE PRESSURE (PSIA)	925.9

SUNRAY D 2R PICTURED CLIFFS - (ORIGINAL)

Ouit

Organize Data ScreenGraph Economics Report Plot Utility
Browsing: SUNRAY D | 2R | 53619A-1 Property No.: 7
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/5/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203 Property No.: 7117

DATE	CUM_GAS	M_SIWHP
	Mcf	Psi
01/01/80	0	798.0
12/14/81	10729	428.0
05/13/82	23348	351.0
09/15/83	40059	307.0
06/05/84	47852	302.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

1996 MONTHLY PRODUCTION FOR 53619A FARMINGTON PHS030M1

SUNRAY D 2R

BLANCO PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

			DAYS	=====	OIL ===	====	========	====	GAS	=====	======			
MO	Т	S	ON	PC	PROD	GRV	PC 1	PROD	on	\mathtt{BTU}	PRESS	WATER !	PROD	С
1	2	F					01	536	31	1138	15.025			
2	2	F					01	481	29	1138	15.025			
3	2	F					01	540	31	1147	15.025			
4	2	F					01	241	30	1147	15.025			
5	2	F					01	3	31		15.025			
6	2	F					01	803	18	1147	15.025			
7	2	F					01	354	31	1146	15.025			
8	2	F					01	591	31	1146	15.025			
9	2	F					01	506	18	1146	15.025			
10	2	F					01	617	28	1146	15.025			
11	2	F					01	557	30		15.025			
12	2	F					01 17 MCFD	528	31	1146	15.025			

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #27

1996 MONTHLY PRODUCTION FOR 53619B FARMINGTON PHS030M1

SUNRAY D 2R

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

PROD GRV PC PROD ON BTU PRESS WATER PROD C MO T S ON PC 13 01 2735 31 1216 15.025 1 2 F 31 02

2	2	F	29	02			51.0	01		2139	29	1216	15.025
3	2	F	31	02		7		01		2401	31	1216	15.025
4	2	F	30	02		2		01		2808	30	1250	15.025
5	2	F	31	02				01		1826	31	1250	15.025
6	2	F	27	02		_		01		2267	27	1250	15.025
7	2	F	31	02		1		01		2203	31	1250	15.025
8	2	\mathbf{F}	31	02				01		1568	31	1250	15.025
9	2	F	19	02				01		1006	19	1226	15.025
10	2	F	26	02		_		01		2021	26	1226	15.025
11	2	F		02	_ 1			01		2284	30	1226	15.025
12	2	F	31	02	O. BBOIR 2	24		01 79	mer L	2444	31	1226	15.025

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #27

SUNRAY D #2R SECTION 21, T3ON, RIOW MESAVERDE - PICTURED CLIFFS

	TNM 390 L AMOCO	NM 901		
NM 618, 22	1 11	3	NN	A 821
5 A PA'94	3A 本		14	Ρ ∰
1	NM 901	NM 10129	Suncav'A'IPi	
\$\\	Atl.	O' Con: B'(M) Att.D'	Sunray'A'(P)	-
17	D'Con.(P) Attentic! NM 378D (H KA)	-10	15)
9A	6R	<u> </u>	NM 817	
₩ <u>7</u> PA'96		6A 13	1 *7	\ ⊕¹A
₁ ²	NM,901	NM 10127		
→	6 T.D.5497	Att.D'		Supergraf AVOIA
T.D.3010' Schunacher	Atlantic'D' Cor	7.E'(M) Con.'L'(P)	Sunray B'(PM)	Sunray'A'(PM)
RK CONOCO	<u> </u>	VM 824	NM 9455	NM 818
(R.K. 0'CONNELL) 3M CONOCO EP. M 9 3 1 ²		P ZR	NM 9455	1 28
F) M 9 3 12	/A	√ x 2 2	P .	
CONOCO(P) Gage Fed.(P)	P ⇔IA			1
Gage(FP) Gage(FP)		21		0
20			2	_
5			2	*2
₩	1	0.4	Frrett 1	7
5 2 ** Stewart Ls.(PM)	3 A M	Sunray D* P	Errett Fed.	King ⊕¹A
Gage Con.(D)		Sunray'D' P	T.D.5207' Helins Federal	King
AMOCO 10		AMOCO 3	AMOCO	NM 203 & NMX 203
D				*
1 ×			l:	 1 ^R ∰
29		28	2	.7
	. 1		⊗ ^R	1A
a 3	4			P ⊕ 1A
9 → ★ P Ludwick Ls.		6M	¥1	
P Ludwick Ls.	,	Stewart'B'(F) & D?	Schoen Ls.	, Riddle'B'
(TEXACO) (TEXACO)				
(TEXACO) (TEXACO)	CONOCO(P)			