

Ernie Busch

From: Ernie Busch
To: David Catanach
Subject: TEXACO EXPLOR & PROD INC. (DHC)
Date: Monday, December 19, 1994 11:27AM

CW ROBERTS #6
G-18-25N-03W
RECOMMEND: APPROVAL

District I
P.O. Box 1980, Hobbs, NM 88241-1980
District II
P.O. Drawer DD, Aztec, NM 88211-0719
District III
1000 Rio Brazos, Aztec, NM 84710

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-115 First Page
Revised October 17, 1993
Instructions on Reverse Side
☐ Amended Report

OPERATOR'S MONTHLY REPORT

2 Operator: LEE M. CRANE		3 OGRID: 013215		4 11/94												
5 Address: c/o A. R. Kendrick, Box 515, Aztec, NM 87410		6 Page 1 of 1														
INJECTION			PRODUCTION			DISPOSITION OF OIL, GAS, AND WATER										
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of oil/conden- sate produced	13 Barrels of water produced	14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Transporter OGRID	22 C O D E 4	23 Oil on hand at end of month
48260 OSWELL FARMINGTON																
003337 Martin 003 N-34-30N-11W 30-045-25434	F	0			0	0	166	7	G	0839830	1192		141 25	007057		U
66957 UNDESIGNATED OLD ALAMO (S1)																
003337 Martin 001 N-34-30N-11W 30-045-60215	F	0			0	0	111	7	G	0839930	1192		94 17	007057		U

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24 Signature A. R. Kendrick A. R. Kendrick, Agent Printed Name & Title
Date 12/14/1994 Phone Number (505) 334-2555



Texaco Exploration and Production Inc

3300 N. Butler
Farmington, NM 87404

November 8, 1994

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
PO BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504

RECEIVED
NOV 15 1994

OIL CON. DIV.
DIST. 3

Attention: David Catanach

RE: **Application for exception to NMOCD Rule 303-A: Downhole Commingle of
C.W. Roberts No. 6 1840' FNL & 1730' FEL, Unit G, Sec. 18-T25N-R3W,
NMPM, Rio Arriba County, New Mexico**

Dear Mr. Catanach:

Texaco Exploration and Production Inc. respectfully requests administrative approval to downhole commingle the Blanco Mesa Verde Gas Pool and the Lindrith Gallup-Dakota Gas Pool within the referenced well. Approval of this application would require an exception to NMOCD Rule 303-a. Please accept the attached information in your consideration of this matter. All offset operators were notified of this request by certified mail and were sent a copy of the supporting information (copy of return receipt cards attached).

The subject well is currently dual completed and both tubing strings use plunger lift systems. The well is unable to unload the fluid made in the Lindrith Gallup-Dakota due to friction loss in the lengthy tubing and low reservoir pressure. The inability to unload the fluid has caused the Lindrith Gallup-Dakota to be nonproductive by the current completion method. The downhole commingling of these zones will offer an economical method of production without reservoir damage, waste reserves, or violation of correlative rights.

If you have any questions concerning this matter please contact Mr. Robert Schaffitzel at (505) 325-4397, ext. 27. Your attention to this matter is greatly appreciated.

Sincerely,

Ted A. Tipton
Area Manager

RFS/s

Attachments
NMOCD-Aztec
file

Application for Exception to Rule 303-Segregation of Production From Pools

(1) **Name and address of the operator:** Texaco Exploration and Production
3300 N. Butler Suite 100
Farmington, NM 87401

(2) **Lease name, well number, well location, name of the pools to be commingled.**

Lease Name: C.W. Roberts
Well Number: 6
Well Location: 1840' FNL & 1730' FEL, Unit G
SW/NE, Sec. 18, T25N, R3W
Rio Arriba County, New Mexico

Pools to Commingle: Blanco Mesa Verde and Lindrith Gallup/Dakota

(3) **A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.**

Attached (Attachment I, II, III)

(4) **A current (within 30 days) 24-hour productivity test on Division C-116 showing the amount of oil, gas and water produced from each zone.**

The C-116 for C.W. Roberts No. 6 Gallup/Dakota and Mesaverde production is attached (Attachment IV A-B, V).

(5) **A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)**

Gallup/Dakota completion: Decline curve attached (Attachment VI), well has effective annual decline of 6.03%.

Mesaverde completion: Decline curve attached (Attachment VII), well has effective annual decline of 10.0%.

Currently the Gallup/Dakota completion is logged off due to insufficient bottom hole pressure, therefore limiting production from the well. The length of the 2-3/8" tubing creates too much friction loss to produce the well.

(6) **Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottomhole pressure for each zone capable of flowing.**

Mesa Verde: 525 psi (Attachment VIII)
Gallup/Dakota: 820 psi (Attachment VIII)

The pressures were taken from a State of New Mexico packer leakage test dated 8-17-93. The pressure differential between the zones will not present a crossflow problem. The proposed method of production is to run a 2-3/8" tubing string to the bottom of the Gallup/Dakota perforations and run rods, and install a pumping unit to pump both zones, this will keep the fluids off the Gallup/Dakota formations (Attachment IX A-B).

Pumping the Gallup/Dakota with current completion would result in gas locking due to the packer in the hole. This would be an inefficient method of production.

Application for Exception to Rule 303-Segregation of Production From Pools
Requirements Continued.

- (7) **A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.**

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale. The major components of the produced waters are sodium, chlorides and bicarbonates. Several offsets are commingled in the proposed zones and no production problems have occurred.

- (8) **A computation showing that the value of the commingled production will not be less than the sum of the individual streams.**

<u>Anticipated Gallup/Dakota Prod.</u>		<u>Current Mesa Verde Prod.</u>	
Oil, BOPD	0	Oil, BOPD	1
Gas, MCFD	62	Gas, MCFD	114
Water, BWPD	1	Water, BWPD	1

The combined production from the Gallup/Dakota and Mesa Verde formations will be approximately 176 MCFD, 1 BOPD, and 2 BWPD.

- (9) **A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.**

Using our anticipated rates as shown in item #8 as an example, allocation will be calculated as follows:

	<u>Gas</u>	<u>Oil</u>	<u>Water</u>
Mesa Verde	$114/176=65\%$	$1/1=100\%$	$1/2=50\%$
Gallup/Dakota	$62/176=35\%$	$0/1=0\%$	$1/2=50\%$

- (10) **A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.**

All offset operators and the BLM have been notified. Please find attached, signed return receipt cards from each operator.

Form C-102
Supersedes C-128
Effective 1-1-65

Operator TEXACO Inc.		Lease C. W. Roberts		Well No. 6
Unit Letter G	Section 18	Township 25N	Range 3W	County Rio Arriba
Actual Footage Location of Well: 1840 feet from the North line and 1730 feet from the East line				
Ground Level Elev. 7103'	Producing Formation Gallup Dakota	Pool Lindrith Gallup Dakota West		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

1840'

1730'

Sec. 18

RECEIVED
APR 04 1988
OIL CON. DIV.
DIST. 3

Attachment I

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Maib L. Komer for Alan A. Kleier

Name _____

Area Superintendent

Position

Texaco Inc.

Company

March 31, 1988

Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision. **FOUR CORNERS AREA** is true and correct to the best of my knowledge and belief. APR 1 1 1900

APR 1 1 1988

Date Surveyed _____

Registered Professional Engineer
and/or Land Surveyor

Certificate No. _____

OFFSET OPERATORS C W ROBERTS # 6 SEC. 18 T25N / R03W

R 04 W	R 03 W
12 CONOCO	BEARTOOTH OIL & GAS 7
SOUTHLAND ROYALTY	SOUTHLAND ROYALTY
MW PETROLEUM	
13 CONOCO	18 TEXACO
MW PETROLEUM	17 TEXACO
24	TEXACO 20
25	
	SCHALK DEV. CO. 8 MERIDIAN OIL

**Offset Operators
C.W. Roberts #6
Sec. 18 T25N/R03W**

Beartooth Oil & Gas Company
745 Pinyon Court
Fruita, CO 81521
(303) 858-3257

CONOCO Inc.
3315 Bloomfield Hwy.
Bloomfield, NM 87413
(505) 327-9557

M.W. Petroleum Corp.
1700 Lincoln St.
Denver, CO. 80203
(303) 837-5000

Schalk Development Co.
Box 25825
Albuquerque, NM 87125
(505) 881-6649

Southland Royalty Co.
Box 4239
2919 Allen Pkwy.
Houston, TX 77210
(713) 831-1600

OPERATOR'S MONTHLY REPORT

Form C-115 - Revised 1/1/93
See Distribution and Code
Information Bottom of Page

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

ICT I
Box 1980, Hobbs, NM 88240
ICT II
Traver DD, Artesia, NM 88210
ICT III
Rio Brazos Rd., Aztec, NM 87410

Operator **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **87401** For Month, Year **03 1994** Page **10** of **126**

POOL NAME (Underline) Lease Name	WELL NO. UNIT SEC. TWP. R. NG.	INJECTION		PRODUCTION		DISPOSITION OF GAS				DISPOSITION OF OIL			
		VOLUME	PRESS	BARRELS OIL/LUND PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	SOLD	OTHER	CODE	OIL ON HAND AT BEG OF MONTH	TRANS- PORTER	TRANS- PORTER	OTHER
<u>RITH GALLUP-DAKOTA, WEST</u> BERTS, C. W.	39-22732 3A L 18 25N 3W	S	0	0	0	0	0						
	39-21295 5 F 17 25N 3W	P	0	53	0	1552 31							
	39-22731 6 G 18 25N 3W	P	0	0	31	1878 31							
	39-22784 6A E 18 25N 3W	S	0	0	0	0	0						
			0	53	124	3430	3390 TEP	40 U		333	198 MOI		0
													187

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

T. A. TIPTON
(TYPED NAME)

AREA MANAGER
(POSITION)

505-325-4397
(PHONE NUMBER)

05-03-94
(DATE)

STATUS CODE
F FLOWING
P PUMPING
G GAS LIFT
S SHUT IN
T TEMP ABANDONED
I INJECTION
D DISCONTINUED

OTHER GAS DISPOSITION CODE
X USED OFF LEASE
D USED FOR DRILLING
G GAS LIFT
L LOST (MCF ESTIMATED)
E EXPLANATION ATTACHED
R REPRESSURING OR PRESSURE MAINTENANCE
V VENTED

OTHER OIL DISPOSITION CODE
C CIRCULATING OIL
L LOST
S SEDIMENTATION (BS & W)
E EXPLANATION ATTACHED
T THEFT

OPERATOR'S MONTHLY REPORT

Form C-115 - Revised 1/1/93
See Distribution and Code
Information Bottom of Page

TRACT I
Box 1980, Hobbs, NM 88240
TRACT II
Drawer DD, Artesia, NM 88210
TRACT III
) Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

any erator **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **07 1994** Page **10** of **126**

POOL NAME (Underline)		INJECTION		PRODUCTION			DISPOSITION OF GAS			DISPOSITION OF OIL						
Lease Name	Well Status	VOLUME	PRESS.	BARRELS OIL COND PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	SCALD	TRANS POR- TER	OTHER	RE	OIL ON HAND AT BLC. OF MONTH	BBLS TO TRANS- PORT	ITRANS- TEP	OTHER	CODE	OIL ON HAND AT END OF MONTH
WELL NO UNIT SEC. TWP. RMC																
WORTH GALLUP-DAKOTA, WEST																
IBERTS, C. W.																
39-22732 3A 18 25N 3W P		0	0	40	0	471 20										
39-21295 5 F 17 25N 3W P		0	0	79	155	542 31										
39-22731 6 G 18 25N 3W S		0	0	0	0	0 0										
39-22784 6A 18 25N 3W P		0	0	89	31	666 31										
		0		208	186	1679		1599 TEP		80 U	200	201 MOI		0		207

BUTTON		STATUS CODE		OTHER GAS DISPOSITION CODE		OTHER OIL DISPOSITION CODE		I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE	
il OCD Santa Fe	F FLOWING	X USED OFF LEASE	C CIRCULATING OIL	T. A. TIPTON (TYPED NAME) AREA MANAGER (POSITION)		505-325-4397 (PHONE NUMBER)		08-24-94 (DATE)	
opy OCD Dist Office	P PUMPING	D USED FOR DRILLING	L LOST						
opy lease is located	G GAS LIFT	G GAS LIFT	S SEDIMENTATION (BS & W)						
opy to Transporter (s)	S SHUT IN	L LOST (MCF ESTIMATED)	E EXPLANATION ATTACHED						
DUE	T TEMP ABANDONED	E EXPLANATION ATTACHED	T THEFT						
postmarked by 24th day	I INJECTION	R PRESSURING OR							
at succeeding month	D DISCONTINUED	V VENTED							

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

Box 1980, Hobbs, NM 88240
Drawer DD, Artesia, NM 88210
Rio Brazos Rd., Aztec, NM 87410

any operator **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **07 1994** Page **84** of **126**
For Month, Year

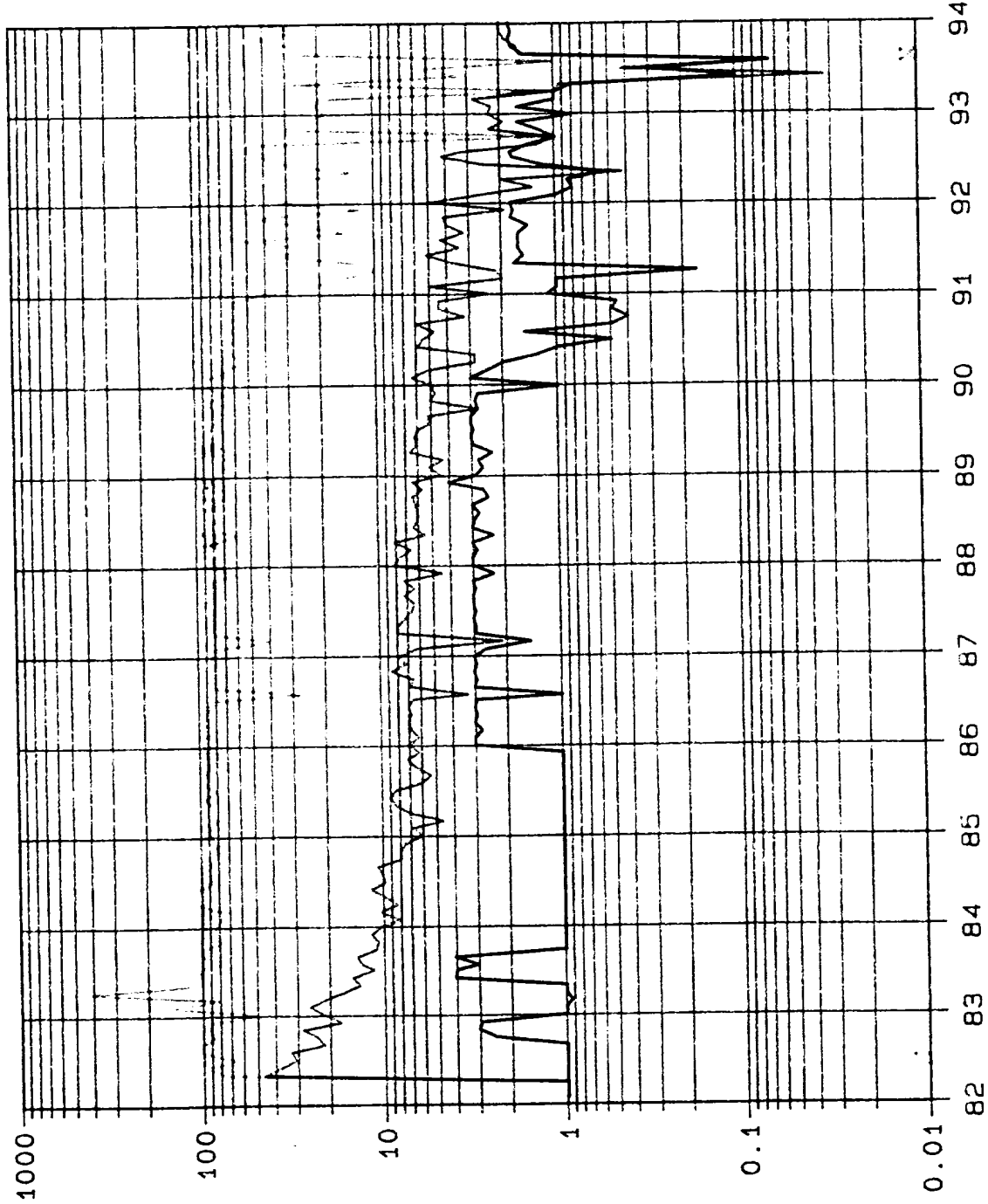
POOL NAME (Underline)		INJECTION		PRODUCTION			DISPOSITION OF GAS			DISPOSITION OF OIL							
Lease Name		VOLUME	PRESS	BARRELS OIL COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DAYS PROD	SOLD	TRANS PUR-TY	OTHER	CODE	OIL ON HAND AT BEG. OF MONTH	BBLs TO TRANS-PORTER	TRANS-PORTER	OTHER	CODE	OIL ON HAND AT END OF MONTH
WELL NO. UNIT SEC. TWP. RNG.		WELL STATUS															
JCO MESAVERDE (PRORATED GAS)		-----															
JBERTS, C. W.																	
039-05966	3 0 18 25N 3W	0	0	0	31	3643	31										
039-22732	3A 18 25N 3W	0	0	7	40	3174	20										
039-22731	6 G 18 25N 3W	0	0	19	31	3485	31										
039-22784	6A 18 25N 3W	0	0	14	310	4495	31										
039-23102	7 J 17 25N 3W	0	0	8	310	3137	31										
039-23101	8 E 17 25N 3W	0	0	0	40	21	2										

Attachment V

libution at OGD Santa Fe opy OGD Dist. Office i which lease is located opy to Transporter (s)	STATUS CODE F FLOWING P PUMPING G GAS LIFT S SHUT IN T TEMP. ABANDONED I INJECTION D DISCONTINUED	"OTHER" GAS DISPOSITION CODE X USED OFF LEASE D USED FOR DRILLING G GAS LIFT L LOST (MCF ESTIMATED) E EXPLANATION ATTACHED R REPRESSURING OR V VENTED	"OTHER" OIL DISPOSITION CODE C CIRCULATING OIL L LOST S SEDIMENTATION (BS & W) E EXPLANATION ATTACHED T THEFT	I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE T. A. TIPTON (TYPED NAME) AREA MANAGER (POSITION) 505-325-4397 (PHONE NUMBER) 08-24-94 (DATE)
---	--	--	--	--

C W ROBERTS 000006 Gallup/Dakota

LEASE DATA
 LSE 25N03W18G
 FLD 8044442
 OPER 158628
 ZONE GALLUP DA
 25N-3W-18
 COUNTY 039
 STATE 30
 STATUS 12-93
 CO 500 HMO
 CO 500 HMOF
 BOPD 2
 BOPD 2
 HOPD 41
 WELLS 1
 WT 0.13BT
 BWPD 0

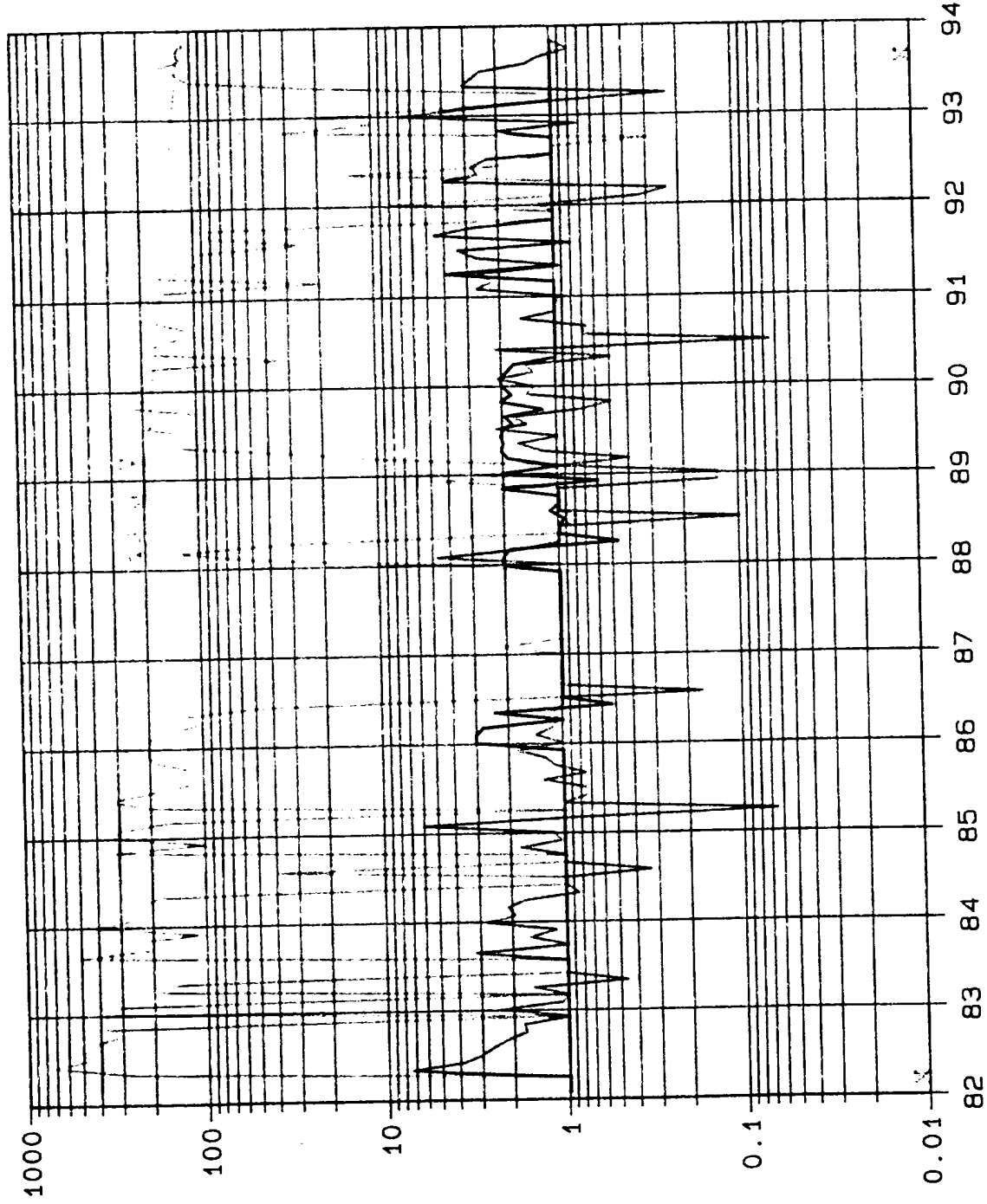


YEARS

Attachment VI
 BOPD BOPD
 12-93

C W ROBERTS 000006 Mesaverde

LEASE DATA
 LSE 25N03W18G
 FLD 8007074
 OPER 158628
 ZONE
 25N-3W-18
 COUNTY 039
 STATE 30
 STATUS 10-93
 BO 5 HBU
 BG 474 NMCF
 BOPD 1
 BHPD 0
 HCFPD 109
 HRLS 1
 GE 0 HBU
 HHPD 0



YEARS

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease C.W.ROBERTS Well No. 6Location of Well: Unit G Sec. 18 Twp. 25N Rge. 3W County RIO ARriba

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO MESAVERDE	GAS	FLOW	TBG
Lower Completion	LINDRETH GALLUP DAKOTA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower) LOWER	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
8-9-93	0 HRS.				BOTH ZONES SHUT IN
8-10-93	24 HRS	230	800		.
8-11-93	48 HRS	340	806		.
8-12-93	72 HRS	415	811		.
8-13-93	96 HRS	462	814		.
8-14-93	120 HRS	490	818		.
8-15-93	144 HRS.	512	820		.
8-16-93	168 HRS	519	422		UPPER SHUT IN; LOWER FLOW 24 HRS.
8-17-93	192 HRS	525	351		UPPER SHUT IN; LOWER FLOW 24 HRS.

Production rate during test

Oil _____ BOPD based on _____ Bbls. in _____ Hours _____ Grav. _____ GOR _____

Gas _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)



10/08/94

C.W. ROBERTS No. 6 CURRENT COMPLETION

LOCATION:

Unit G, 1840' FNL & 1730' FEL
SW/NE, Sec. 18, T25N, R3W
Rio Arriba County

ELEVATION: 7115' KB
7103' GL

SPUD DATE: 6-30-81

FORMATION TOPS:

Ojo Alamo 3189'
Kirtland 3291'
Pictured Cliffs 3588'
Lewis 3640'
chacra 4500'
Mesa Verde 5260'
Gallup 6901'
Greenhorn 7718'
Graneros 7778'
Dakota 7808'

BLANCO MESA VERDE PERFS:

5308'-16'	5757'-61'
5326'-30'	5780'-5800'
5604'-08'	5804'-10'
5659'-61'	5884'-89'

53, 0.40" Holes, 1 SPF

Acidized w/ 2750 gals. 15% HCl
Frac w/ 80 Q foam, 29,540 gals. wtr
& 1,031,100 SCF of N₂ w/ 100,000# 20/40 Sand
Avg IR 35 BPM @ 1600#
IPF of 3757 MCFGPD

LINDRITH GALLUP/DAKOTA PERFS:

6940'-50'	7098'-7112'	7818'-32'
6973'-80'	7116'-36'	7896'-7900'
7002'-06'	7156'-66'	7968'-88'
7074'-78'	7172'-97'	

132, 0.40" Holes, 1 SPF

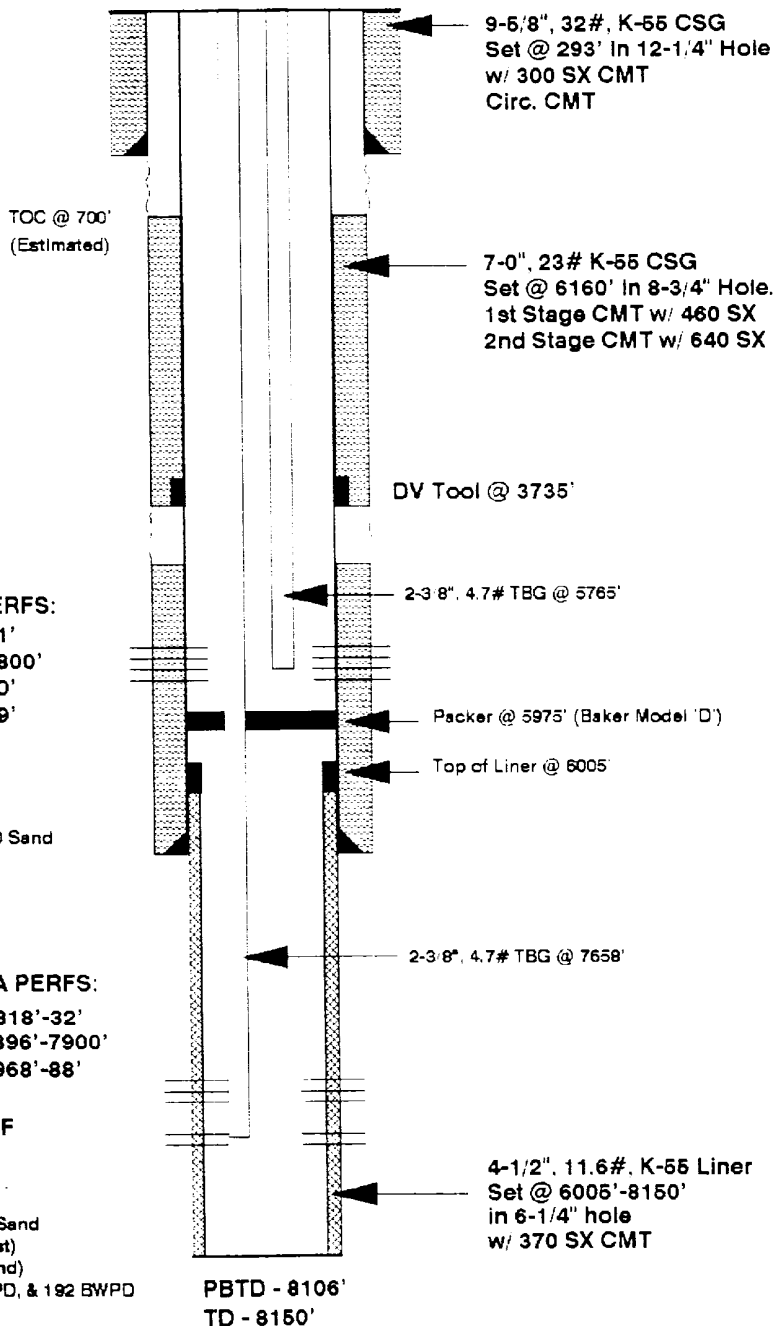
6940'-7197' (GALLUP)

Acidized w/ 2100 gal. 15% HCl &
Frac w/ 120,840 gals. gel water &
1,152,000 SCF of N₂ w/ 140,000# 20/40 Sand
in 2 Stages: Avg IR 44 BPM @ 3000# (1st)
Avg IR 33 BPM @ 3200# (2nd)

Commingled IPF 495 MCFGPD, 258 BOPD, & 192 BWPD

7818'-7988' (DAKOTA)

Frac w/ 120,000 gals. gel & 195,000# 20/40 Sand
Avg IR 35 BPM @ 1700#





10/10/94

C.W. ROBERTS No. 6 PROPOSED COMPLETION

LOCATION:

Unit G, 1840' FNL & 1730' FEL
SW/NE, Sec. 18, T25N, R3W
Rio Arriba County

ELEVATION: 7115' KB
7103' GL

SPUD DATE: 6-30-81

FORMATION TOPS:

Ojo Alamo 3189'
Kirtland 3291'
Pictured Cliffs 3588'
Lewis 3640'
chacra 4500'
Mesa Verde 5260'
Gallup 6901'
Greenhorn 7718'
Graneros 7778'
Dakota 7808'

BLANCO MESA VERDE PERFS:

5308'-16'	5757'-61'
5326'-30'	5780'-5800'
5604'-08'	5804'-10'
5659'-61'	5884'-89'

53, 0.40" Holes, 1 SPF

Acidized w/ 2750 gals. 15% HCl
Frac w/ 60 Q foam, 29,540 gals. wtr
& 1,031,100 SCF of N2 w/ 100,000# 20/40 Sand
Avg IR 35 BPM @ 1600#
IPF of 3757 MCFGPD

LINDRITH GALLUP/DAKOTA PERFS:

6940'-50'	7098'-7112'	7818'-32'
6973'-80'	7116'-36'	7896'-7900'
7002'-06'	7156'-66'	7968'-88'
7074'-78'	7172'-97'	

132, 0.40" Holes, 1 SPF

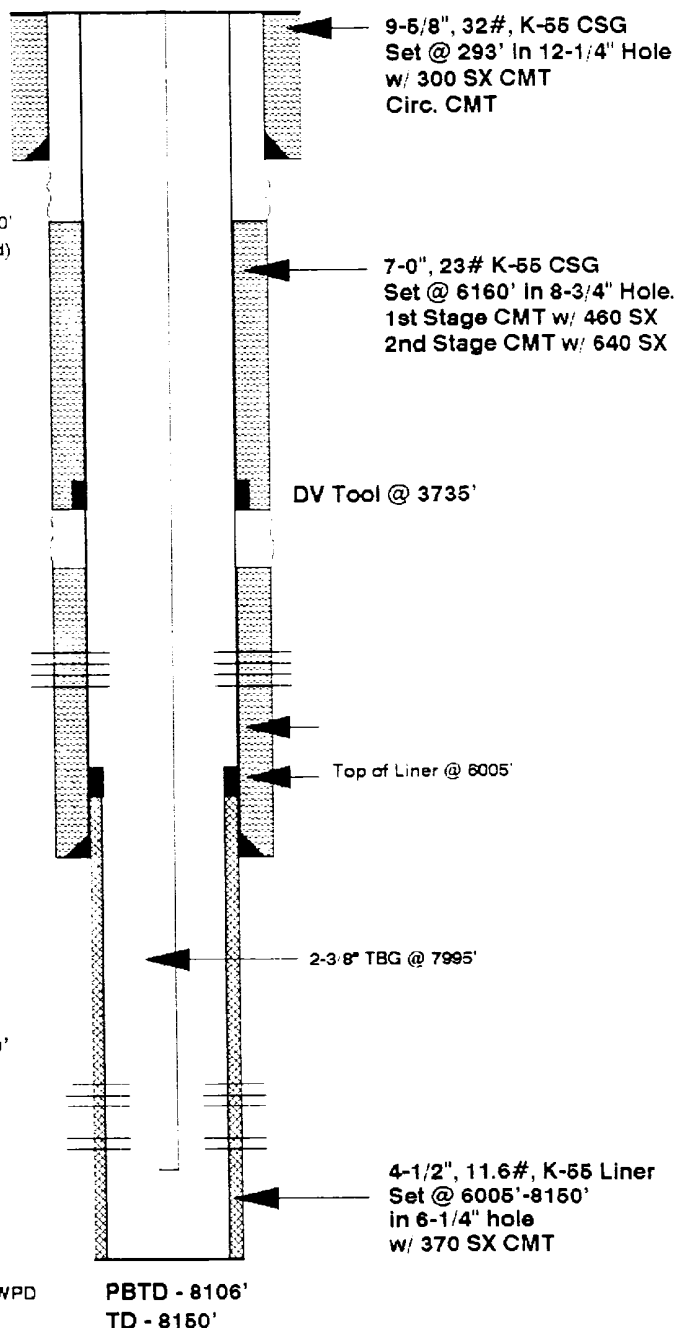
6940'-7197' (GALLUP)

Acidized w/ 2100 gal. 15% HCl &
Frac w/ 120,840 gals. gel water &
1,152,000 SCF of N2 w/ 140,000# 20/40 Sand
in 2 Stages: Avg IR 44 BPM @ 3000# (1st)
Avg IR 33 BPM @ 3200# (2nd)

Commingled IPF 495 MCFGPD, 258 BOPD, & 192 BWPD

7818'-7988' (DAKOTA)

Frac w/ 120,000 gals. gel & 195,000# 20/40 Sand
Avg IR 35 BPM @ 1700#



C.W. Roberts No. 6

Workover Procedure

1. MIRUSU, NDBWH, NUBOP.
2. POOH w/ short string 2-3/8" TBG (Mesaverde production equipment). Release Baker Model 'D' PKR @ 5975' and POOH w/ longstring of 2-3/8" TBG and PKR (Gallup/Dakota production equipment).
3. RIH w/ 2-3/8" TBG w/ pump seating nipple @ 8050'. RIH w/ rods and pump.
4. NDBOP, NUWH, RDMOSU. Put well on downhole commingled production (MV and GP/DK).

your RETURN ADDRESS completed on the reverse

PS Form 3811, December 1991

1. Article Addressed to:
Bertoth Oil & Gas Company
PO Box 2564
Billings, MT.
59103

2. Signature (Agent)
Bertoth

3. Signature (Addressee)

4. Article Number
P 337 999 175

5. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

6. Date of Delivery
10/21

7. Addressee's Address (Only if requested and fee is paid)

8. Addressee's Address (Only if requested and fee is paid)

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Serv

Is your RETURN ADDRESS completed on the re

PS Form 3811, December 1991

1. Article Addressed to:
Sutherland Fidelity Co.
Box 4039
Houston TX 77210

2. Signature (Agent)
Sutherland

3. Signature (Addressee)

4. Article Number
P 337 994

5. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

6. Date of Delivery
OCT 19 1994

7. Addressee's Address (Only if requested and fee is paid)

8. Addressee's Address (Only if requested and fee is paid)

DOMESTIC RETURN

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
CONOCO INC
3315 Bloomfield Hwy
Bloomfield, NM
87413

5. Signature (Addressee)

6. Signature (Agent)
Diane St. Wiering

4a. Article Number
P 337 994 948

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
10-18-94

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
MID PETROLEUM CORP
1700 Lincoln St
DENVER CO
80203

5. Signature (Addressee)

6. Signature (Agent)
JLR

4a. Article Number
P 337 994 947

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
10/12

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991

DOMESTIC RETURN RECEIPT

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
SCHALK DEVELOPMENT CO.
Box 25825
ALBUQUERQUE NM
87125

5. Signature (Addressee)
Karen Schalk

6. Signature (Agent)

4a. Article Number
P 337 994 946

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
OCT 17 1994

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991

DOMESTIC RETURN RE