



State of New Mexico
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148

(505) 827-5760
FAX (505) 827-5766

February 1, 1994

SANTA FE, NEW MEXICO 87504-1148

Mitchell Energy Corporation
P.O. Box 4000
2001 Timberloch Place
The Woodlands, Texas 77387-4000

Attention: Mr. George Mullen

Re: Application to Downhole Commingle
Turkey Track (Morrow) & Turkey Track (Atoka) Pool
Conoco "10A" State well No. 1-Y
Unit F, Section 10-19S-29E
Eddy County, New Mexico

Dear Mr. Mullen:

Reference is made to your application of January 24, 1994. Your application proposes to downhole commingle the gas production from the Turkey Track (Atoka) Pool and the Turkey Track (Morrow) Pool in the Conoco "10A" State Well No. 1-Y located 1800' FWL and 1980' FNL of Section 10, T19S, R29E, Eddy County, New Mexico.

Since it appears that all the New Mexico Oil Conservation Division rules and regulations have been complied with and there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division.

Your filing fee in the amount of thirty (\$30.00) dollars has been received.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY B. POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil/Gas and Minerals Division
(505) 827-5744
RBP/FOP/pm

encls.

cc: Reader File
B-8096-23

OCD--David Catanach/Ben Stone

RELEASE 12-6-93 DHC

VIA FEDERAL EXPRESS

November 15, 1993

Mr. William J. Lemay
Oil Conservation Division
State Land Office Building
310 Oil Santa Fe Trail
Santa Fe, New Mexico 87504

Re: CONOCO "10A" STATE WELL NO. 1-Y
Turkey Track (Atoka) Pool
Turkey Track (Morrow) Pool
Eddy County, New Mexico



Dear Mr. Lemay:

Mitchell Energy Corporation hereby respectfully requests an exception to Rule 303-A to downhole commingle the Atoka and Morrow zones in the subject well.

To aid you in processing this request, I have enclosed, in duplicate, the following:

- | | |
|---|--|
| 1.) Present Wellbore Diagram | 7.) Production Decline Curves for each zone |
| 2.) Proposed Wellbore Diagram | 8.) Proposed Allocation Formula |
| 3.) Well Chronological | 9.) Plat |
| 4.) Bottom Hole Pressure Surveys for both zones | 10.) Memo stating that royalty and working interests are common for both zones |
| 5.) Gas Analysis for both zones | 11.) Certificate of Service |
| 6.) Form C-116 tests for each zone | |

Should you require additional information or if I can be of any further help in this matter, kindly advise.

Very truly yours,

MITCHELL ENERGY CORPORATION

George Mullen
Regulatory Affairs Specialist

GM:mw
303-Altr.GM

Enc.

cc: OXY USA Inc.
Box 50250
Midland, TX 79710

Southland Royalty Company
c/o Meridian Oil, Inc.
Box 51810
Midland, TX 79710-1810

Oil Conservation Division
PO Box DD
Artesia, NM 88210

November 24, 1993

Mr. Mike Stogner
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
P.O. Box 2088
Santa Fe, NM 87504



Re: *Application to Downhole Commingle*
 Conoco "10A" State Well No. 1-Y
 Turkey Track (Atoka) & Turkey Track (Morrow) Pools
 Eddy County, New Mexico

Dear Mr. Stogner:

Please substitute the enclosed corrected "Proposed Allocation Formula" exhibit for the one sent with our application dated November 15. The original exhibit had transposed the percentage of production to be attributable to the respective pools.

Thanks for your assistance.

Sincerely,

MITCHELL ENERGY CORPORATION

A handwritten signature in black ink, appearing to read 'Mark N. Stephenson', written over a horizontal line.

Mark N. Stephenson
Manager
Production-Regulatory Affairs

MNS:mtb
10a1y.mns

enc.

CONOCO "10A" STATE #1Y
TURKEY TRACK ATOKA(GAS) OCD#-97310
TURKEY TRACK MORROW (GAS) OCD#-97305
SECTION 10F, T19S, R29E
EDDY COUNTY, NEW MEXICO

Mo/yr	Lower (MORROW)		Upper (ATOKA)		TOTAL PRODUCTION		MONTHLY % of TOTAL PRODUCTION	
	GAS (MCF/M)	OIL (BOPM)	GAS (MCF/M)	OIL (BOPM)	GAS (MCF/M)	OIL (BOPM)	MORROW (%)	ATOKA (%)
Aug-92	2,336	0	13,330	0	15,666	0	0.15	0.85
Sep-92	1,222	0	10,914	0	12,136	0	0.10	0.90
Oct-92	1,571	0	12,471	15	14,042	15	0.11	0.89
Nov-92	1,495	0	11,426	6	12,921	6	0.12	0.88
Dec-92	1,286	0	12,618	1	13,904	1	0.09	0.91
Jan-93	1,590	6	12,274	0	13,864	6	0.11	0.89
Feb-93	1,411	6	10,819	0	12,230	6	0.12	0.88
Mar-93	1,037	0	11,980	21	13,017	21	0.08	0.92
Apr-93	986	0	9,882	4	10,868	4	0.09	0.91
May-93	962	0	11,314	0	12,276	0	0.08	0.92
Jun-93	651	0	10,944	0	11,595	0	0.06	0.94
Jul-93	1,651	0	8,672	0	10,323	0	0.16	0.84
Aug-93	1628	0	10154	0	11782	0	0.14	0.86

12 MO TOTALS 17,826 12 146,798 47 164,624 59

MORROW = 17,898 MCFequiv
ATOKA= 147,080 MCFequiv
TOTAL PRODUCTION = 164,978 MCFequiv

Last 12 month fraction of total production from MORROW = $17,898/164,978 = .1085$

Last 12 month fraction of total production from ATOKA = $146,080/164,978 = .8915$

PROPOSED ALLOCATION FORMULA :

(TOTAL PRODUCTION) X (.1085) = TURKEY TRACK MORROW (GAS) OCD#-97305

(TOTAL PRODUCTION) X (.8915) = TURKEY TRACK ATOKA (GAS) OCD#-97310

OIL CONSERVATION DIVISION
RECEIVED

'93 DEC 10 AM 9 04

December 8, 1993

Mr. Mike Stogner
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
P.O. Box 2088
Santa Fe, New Mexico 87504



Re: APPLICATION TO DOWNHOLE COMMINGLE
Conoco "10A" State Well No. 1-Y
Turkey Track (Atoka) & Turkey Track (Morrow) Pools
Eddy County, New Mexico

Dear Mr. Stogner:

Enclosed for your review and file you will find copies of the certified cards whereby the offset operators received notice of the above captioned Application to Downhole Commingle.

Should you require additional information or if I can be of any further help, kindly advise.

Very truly yours,

MITCHELL ENERGY CORPORATION

George Mullen
Regulatory Affairs Specialist

GM:mw
NMOCDtr.GM

Enclosure

Is your RETURN ADDRESS completed on the reverse side?

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.

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

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

OXY USA Inc.
Box 50250
Midland, TX 79710

4a. Article Number

P 225 376 319

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-802-530

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Southland Royalty Co.
c/o Meridian Oil, Inc.
Box 51810
Midland, TX 79710-1810

4a. Article Number

P 225 376 320

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

DOMESTIC RETURN RECEIPT

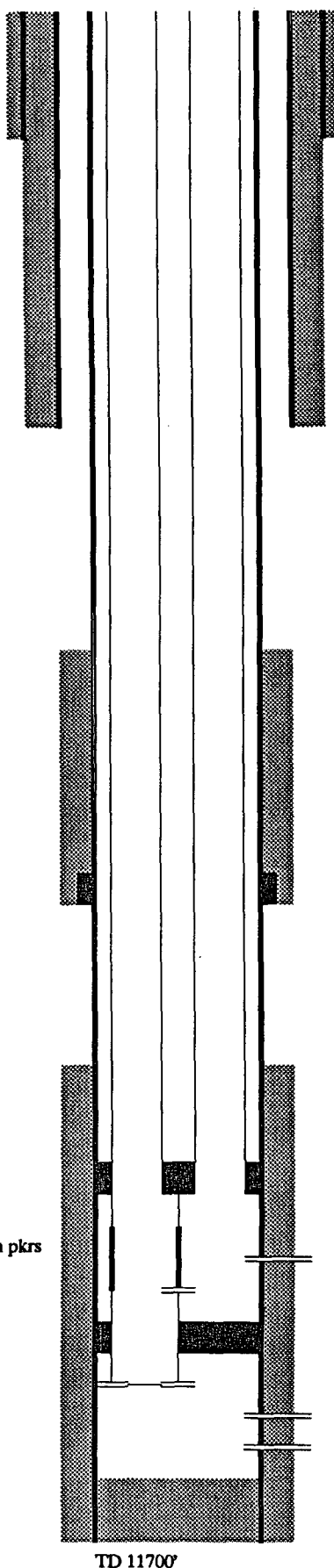
Thank you for using Return Receipt Service.

Conoco "10A" State #1Y
Turkey Track Field
Eddy Co., NM
JGC 6-8-93

Proposed

KB: 3396'
GL: 3379'

2-3/8", 4.7#, N-80 tbg between pkrs
w/blast joints across perfs



13-3/8", 48#, H-40, ST&C @ 330'
cmt w/ 435 sx + 15 yds ready-mix

8-5/8", 24#-32#, J-55 @ 3020'
cmt w/ 1692 sx

2-1/16", 3.4#, N-80, IJ prod tbg on both sides

TOC @ 6230' (temp survey)

DV tool @ 8838'
cmt w/ 575 sx

TOC @ 10155'

Baker "A-5" pkr @ 10538' w/ "R" profile on bottom

10748' - 10758' (10 holes), Atoka perfs
LOWER TUBING PERFORATED FOR COMMINGLING

Baker "DB" pkr @ 11100' w/ plug stuck in "F" nipple below
sub below pkr perfed 11124'-27' (12 holes)
11296' - 11308' (49 holes), Morrow perfs

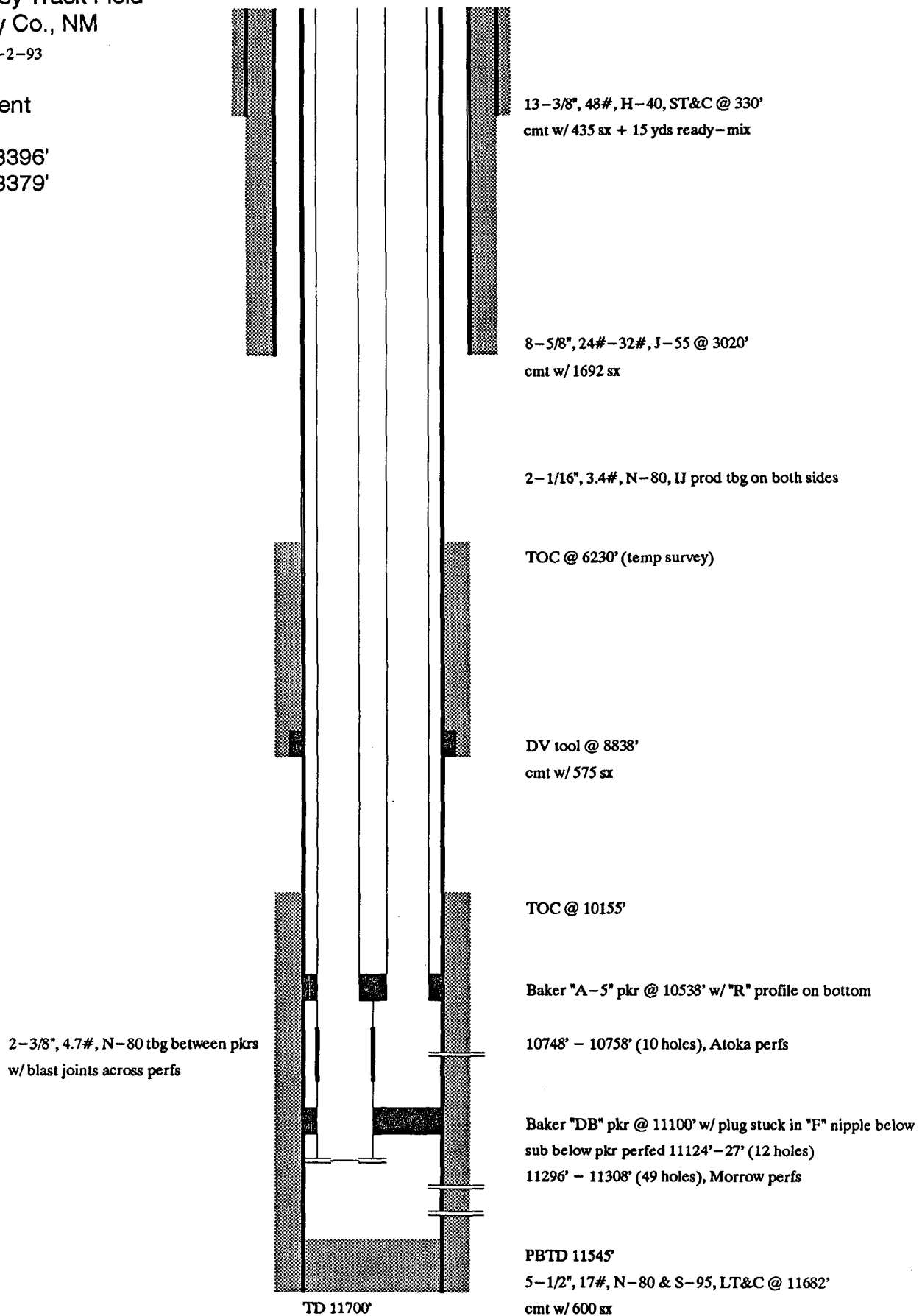
PBTD 11545'
5-1/2", 17#, N-80 & S-95, LT&C @ 11682'
cmt w/ 600 sx

TD 11700'

JGC 6-2-93

KB: 3396'

GL: 3379'



Conoco "10A" State #1Y
Turkey Track Field
Eddy Co., NM
Well Chronological

6/02/93

Page 1

Date	Activity
4/12/80	Spud. 17-1/2" hole. Threshold Development operator.
4/13/80	Set 13-3/8", 48#, H-40, ST&C @ 330'. Cmt w/ 435 sx C + 2% CaCl + 1/4#/sx celloseal. Cmt did not circ. Top off cmt w/ 15 yds of ready-mix.
4/22/80	Set 8-5/8", 24#-32#, J-55 @ 3020'. 11" hole. Cmt w/ 1417 sx Lite followed by 275 sx C + 2% CaCl + 1/4#/sx celloseal. Cmt circ to surface.
6/07/80	TD 11700'. 7-7/8" hole.
6/10/80	Set 5-1/2", 17#, N-80 & S-95, LT&C @ 11682'. PBTD 11545'. DV tool 8838'. Cmt 1st stage w/ 375 sx Lite + 0.3% CFR-2 followed by 225 sx H + 0.3% CFR-2 + 5#/sx KCL. Cmt 2nd stage w/ 575 sx H + 0.3% CFR-2 + 5#/sx KCL.
6/11/80	Ran temperature survey w/ TOC on 2nd stage @ 6230'.
9/14/80	Drill out DV tool.
9/15/80	Ran GR-CL-BL w/ TOC on 2nd stage not logged & TOC on 1st stage @ 10155'. Set Baker "DB" packer @ 11100'.
9/17/80	Perf Morrow 11296' - 11308' (4 SPF, 49 holes). Tubing displaced w/ N2 prior to perforating.
9/18/80	Acidize 11296' - 11308' w/ 2000 gals 7-1/2% + 500 SCF/bbl N2.
9/20/80	Perfs 11296' - 11308' F-24, FTP 500 psi, 1/2" choke.
9/21/80	Set blanking plug in "F" nipple @ 11130' below packer. Plug began leaking.
9/26/80	Unable to retrieve blanking plug, gave up on fishing attempts to pull same.
9/30/80	Perf Atoka 10748' - 10758' (1 SPF, 10 holes).
10/01/80	Acidize 10748' - 10758' w/ 2000 gals 7-1/2% + 500 SCF/bbl N2.
10/02/80	Perfs 10748' - 10758' F-9, FTP 550 psi, 1/2" choke.
10/07/80	RIH w/ seals, blast jt, 2-3/8" 4.7#, N-80 tbg, Baker "A-5" pkr ("R" nipple on btm of upper side), & 2-1/16", 3.4#, N-80, IJ tbg for lower string (Morrow). Set A-5 pkr @ 10538' & sting into lower pkr @

6/02/93

Conoco "10A" State #1Y
Turkey Track Field
Eddy Co., NM
Well Chronological

Page 2

Date	Activity
	----- 11100'. RIH w/ 2-1/16" tbg for upper string (Atoka).
10/08/80	Perforate sub below pkr @ 11100' to produce Morrow, 11124'-27' (0.25" dia, 12 holes). Blanking plug stuck in F nipple.
10/24/80	AOF Morrow = 1351 MCFPD. AOF Atoka = 989 MCFPD.
11/13/80	Initial sales Morrow @ FTP 2650 psi @ 1 MMCFD. Initial sales Atoka @ 2500 psi @ 1 MMCFD.
2/08/82	Swab Morrow to kick off.
11/01/83	MEC assumes operation of wells from Threshold Development.
11/14/84	Replaced Transwestern compressor w/ Brazos compressor. (Atoka).
3/16/85	Wells curtailed by purchaser, Transwestern.
3/27/85	Both sides returned to production.
8/01/86	Took Brazos compressor out of service due to low volume requirements (curtailment).
2/01/87	Brazos compressor released from location.
7/30/87	Morrow BHP = 2881 psi @ 10546'. BHT = 188 F. Could not get bomb below 10548'. Atoka BHP = 2389 psi @ 10530'. BHT = 182 F. Very tight from 9000' - 10530'.
8/01/88	Morrow BHP = 1902 psi @ 10500'. FL = 9978'. BHT = 179 F.
3/07/89	Well (Morrow) SI due to low gas prices.
3/17/89	Well (Atoka) SI due to low gas prices.
4/20/89	Well (Atoka) being produced one day a month to hold lease.
7/11/89	Morrow BHP = 2413 psi @ 10540'. Atoka BHP = 2127 psi @ 10530'.
12/01/89	Well (Atoka) returned to production.
2/09/90	Sales line laid from Conoco 10 State #1 to Conoco 10A State #1Y location allowing sales to either El Paso or Enron. When selling to Enron, #1Y (Atoka) shares meter w/ Conoco 10 St #1. When selling to El Paso, all three wells are commingled.

Conoco "10A" State #1Y
Turkey Track Field
Eddy Co., NM
Well Chronological

6/02/93

Page 3

Date	Activity
4/18/92	Atoka BHP = 1732 psi @ 10500'. Morrow BHP = 1682 psi @ 11100'.

COMPANY: PRO WIRELINE
CLIENT: MITCHELL ENERGY
GAUGE NUMBER: 74063
WELL NAME: CONOCO 10A STATE
WELL NUMBER: 1-Y
TEST NUMBER:
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: STATIC GRADIENT/ ATOKA

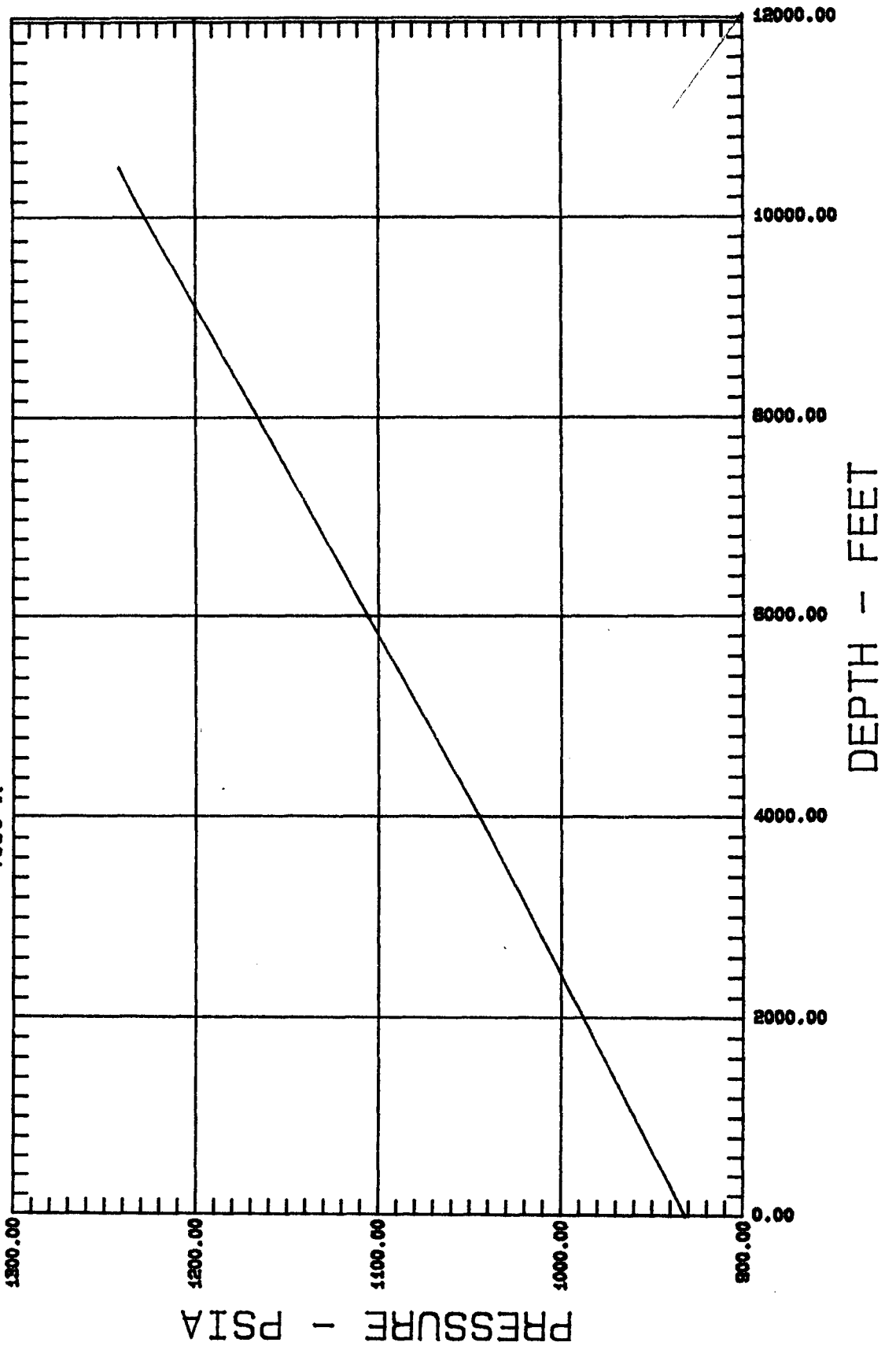
POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

PAGE START DATE: 9/ 5/93
PAGE START TIME: 0: 0: 0
DATA FILE: 7

GAUGE S/N: 74063

DELTA TIME HRS	DEPTH FEET	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	932.00		GRADIENT LB/FT.
0.000	2000.00	988.00		.028
0.000	4000.00	1045.00		.0285
0.000	6000.00	1106.00		.0305
0.000	8000.00	1166.00		.030
0.000	10000.00	1228.00		.031
0.000	10500.00	1242.00		.028
0.000	10500.00		167.00	MAX. TEMP.

Plot starting date: 9/ 5/93
 time: 0: 0: 0
 Gauge S/N
 Company: PRO WIRELINE
 Client: MITCHELL ENERGY
 Well name: CONOCO 10A STATE
 Well #: 1-Y
 Test #:
 Location: BURRELL
 Operator: BURRELL
 Comments: STATIC GRADIENT/ ATOKA



COMPANY: PRO WIRELINE
CLIENT: MITCHELL ENERGY
GAUGE NUMBER: 74063
WELL NAME: CONOCO 10A STATE
WELL NUMBER: 1-Y
TEST NUMBER:
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: STATIC GRADIENT/ MORROW

POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

PAGE START DATE: 9/ 5/93
PAGE START TIME: 0: 0: 0
DATA FILE: 7

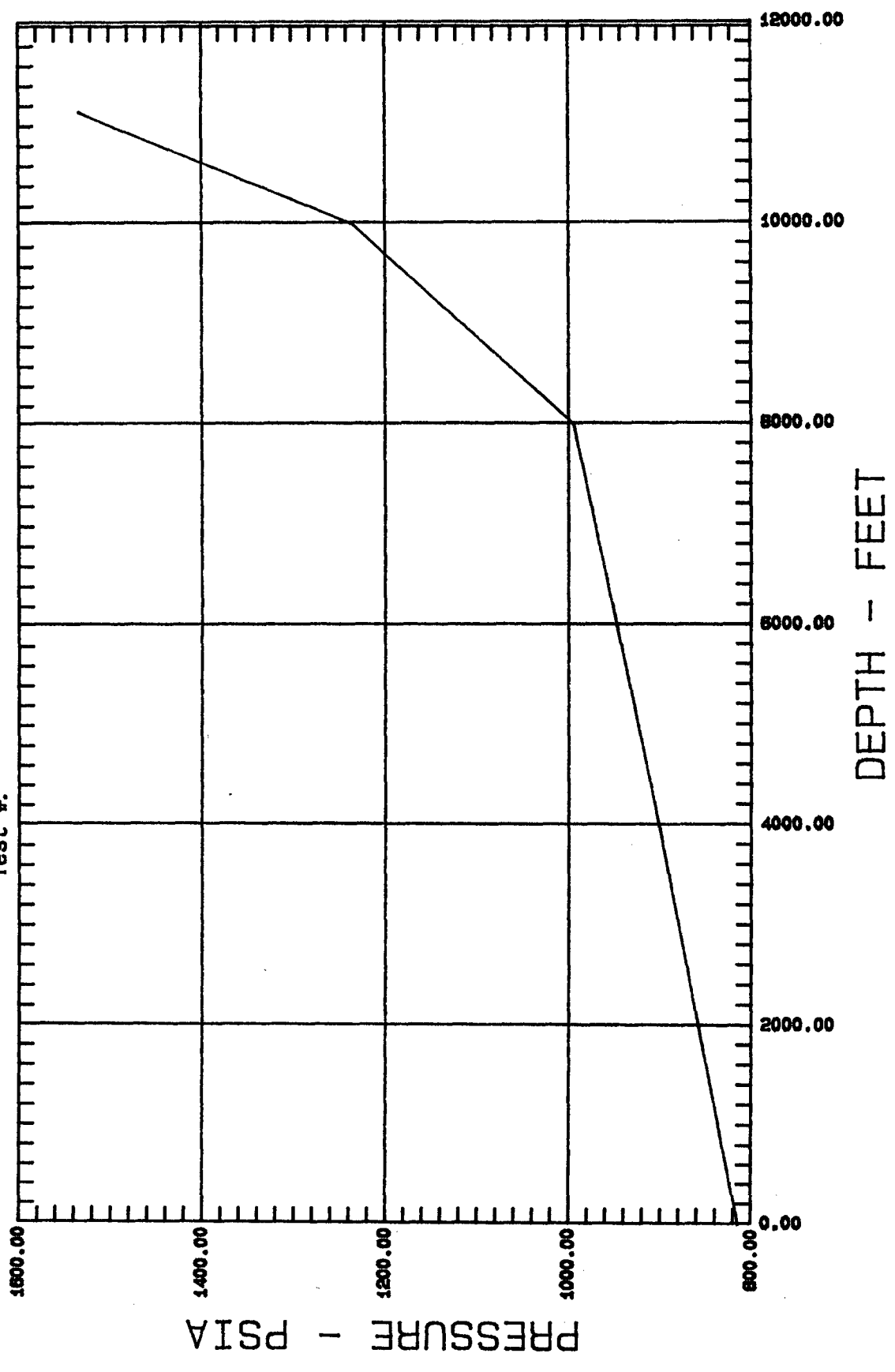
GAUGE S/N: 74063

DELTA TIME HRS	DEPTH FEET	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	814.00		GRADIENT LB/FT.
0.000	2000.00	858.00		.022
0.000	4000.00	901.00		.0215
0.000	6000.00	947.00		.023
0.000	8000.00	994.00		.0235
0.000	10000.00	1236.00		.121
0.000	11100.00	1533.00		.270
0.000	11100.00		172.00	MAX. TEMP.

Plot starting date: 9/ 5/93
time: 0: 0: 0
Gauge S/N

Company: PRO WIRELINE
Client: MITCHELL ENERGY
Well name: CONOCO 10A STATE
Well #: 1-Y
Test #:

Location:
Operator: BURRELL
Comments: STATIC GRADIENT/ MORROW



**Laboratory Services**

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
Attention: Mr. Leonard Abney
P. O. Box 791
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Conoco 10-A St. 1-Y
COMPANY: Mitchell Energy
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	09-04-93 11:00AM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	09-06-93	SAMPLED BY:	Pro Well
	PRESSURE - PSIG	90.00	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

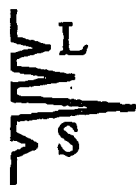
REMARKS: Upper ~~Morrow~~ Formation
Atoka

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	0.29	
Carbon Dioxide	(CO2)	0.65	
Methane	(C1)	87.88	
Ethane	(C2)	6.44	1.712
Propane	(C3)	2.67	0.733
I-Butane	(IC4)	0.44	0.143
N-Butane	(NC4)	0.70	0.220
I-Pentane	(IC5)	0.28	0.101
N-Pentane	(NC5)	0.16	0.057
Hexane	(C6)	0.49	0.212
Heptanes Plus	(C7+)	0.00	0.000
		100.00	3.178

BTU/CU.FT. - DRY	1147	MOLECULAR WT.	18.9795
AT 14.650 DRY	1143		
AT 14.650 WET	1120	26# GASOLINE -	0.443
AT 15.025 DRY	1173		
AT 15.025 WET	1178		

SPECIFIC GRAVITY -	
CALCULATED	0.655
MEASURED	



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mitchell Energy
Attention: Mr. Dan Tuffly
Independence Plaza
400 W. Illinois, Suite 1000
Midland, Texas 79701

SAMPLE Conoco
IDENTIFICATION: 10-A State 1-Y
COMPANY: Mitchell Energy
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	09-01-93	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	09-04-93	SAMPLED BY:	Pro Well Testing & Wirel
	PRESSURE - PSIG	260.00	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F	78.00		
REMARKS:	Atoka Lower Zone Morrow			

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	
Hydrogen Sulfide (H2S)			
Nitrogen (N2)	1.11		
Carbon Dioxide (CO2)	0.32		
Methane (C1)	88.96		
Ethane (C2)	5.87	1.561	
Propane (C3)	2.02	0.554	
I-Butane (IC4)	0.30	0.098	
N-Butane (NC4)	0.46	0.145	
I-Pentane (IC5)	0.18	0.065	
N-Pentane (NC5)	0.11	0.039	
Hexane (C6)	0.67	0.289	
Heptanes Plus (C7+)	0.00	0.000	
	100.00	2.751	
BTU/CU.FT. - DRY	1121	MOLECULAR WT.	18.6052
AT 14.650 DRY	1118		
AT 14.650 WET	1095	26# GASOLINE -	0.441
AT 15.025 DRY	1147		
AT 15.025 WET	1152		
SPECIFIC GRAVITY -			
CALCULATED	0.643		
MEASURED			

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator Mitchell Energy Corporation		Pool Turkey Track (Atoka)		County Eddy									
Address P.O. Box 4000, The Woodlands, Tx. 77387		TYPE OF TEST - (X)		Completion ☐ Special ☒									
LEASE NAME Conoco "10A" State (upper)	WELL NO. 1Y	LOCATION			DATE OF TEST 9-13-93	CHOKE SIZE open	TBG. PRESS. 365	DAILY ALLOW- ABLE	LENGTH OF TEST HOURS 24	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL. -
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
		F	10	19S	29E					0	-	0	349

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.
Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

Greg Colburn

Printed name and title

Greg Colburn Staff Production Engineer

Date

9-16-93

Telephone No.

915-682-5396

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator Mitchell Energy Corporation		Pool Turkey Track (Morrow)		County Eddy											
Address P.O. Box 4000, The Woodlands, Tx. 77387		TYPE OF TEST - (X)		Completion ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OL BBLs.	GAS M.C.F.
Conoco "10A" State (lower)	1Y	F	10	19S	29E	9-12-93	F	open	310	24	0	-	0	67	-

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.
Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

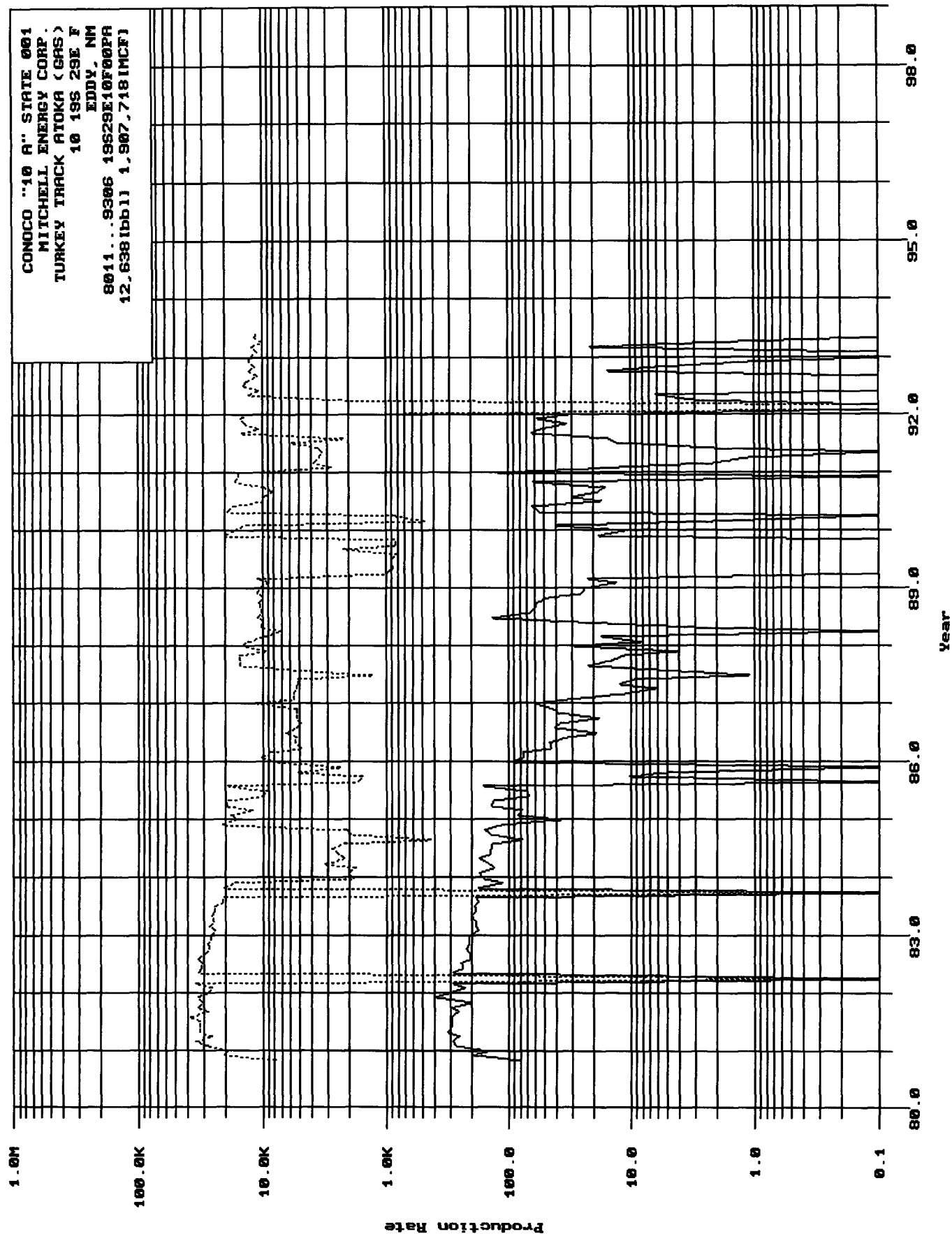
Greg Colburn
Printed name and title

Staff Production Engineer
9-16-93
Date

915-682-5396

Telephone No.

RATE VERSUS TIME



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Version 1.30

Date: 10/15/93

Data Storage File: conl0.dsf

Case Name: 2 NMG00219S29E10F00PACONOCO "10 A" STATE001

Case I.D. No. (GET): 2

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1982	207.000	27629.000	0.000
12/1982	210.000	25924.000	0.000
01/1983	202.000	25438.000	0.000
02/1983	175.000	24038.000	0.000
03/1983	185.000	26575.000	0.000
04/1983	184.000	24683.000	0.000
05/1983	197.000	25645.000	0.000
06/1983	186.000	24122.000	0.000
07/1983	189.000	24336.000	0.000
08/1983	174.000	20737.000	0.000
09/1983	185.000	20350.000	0.000
10/1983	0.000	0.000	0.000
11/1983	176.000	20471.000	0.000
12/1983	113.000	16714.000	0.000
01/1984	159.000	1856.000	31.000
02/1984	170.000	1992.000	29.000
03/1984	129.000	1755.000	31.000
04/1984	143.000	3101.000	30.000
05/1984	173.000	2204.000	30.000
06/1984	141.000	2401.000	30.000
07/1984	137.000	2744.000	62.000
08/1984	135.000	2169.000	31.000
09/1984	77.000	427.000	30.000
10/1984	139.000	1934.000	30.000
11/1984	154.000	2063.000	30.000
12/1984	111.000	20898.000	31.000
01/1985	36.000	16082.000	31.000
02/1985	82.000	18103.000	31.000
03/1985	77.000	11973.000	0.000
04/1985	137.000	19314.000	0.000
05/1985	129.000	18671.000	31.000
06/1985	68.000	10095.000	0.000
07/1985	71.000	8925.000	0.000
08/1985	160.000	18588.000	0.000
09/1985	0.000	1672.000	0.000
10/1985	10.000	1529.000	0.000
11/1985	5.000	5147.000	30.000
12/1985	0.000	2351.000	31.000
01/1986	91.000	7635.000	31.000
02/1986	75.000	10112.000	0.000
03/1986	75.000	8568.000	0.000
04/1986	44.000	4935.000	0.000
05/1986	45.000	5336.000	0.000
06/1986	32.000	5278.000	0.000
07/1986	19.000	6375.000	0.000
08/1986	41.000	5312.000	0.000
09/1986	37.000	4934.000	6.000
10/1986	18.000	5194.000	8.000

Data Storage File: con10.dsf

Case Name: 2 NMG00219S29E10F00PACONOCO "10 A" STATE001

Case I.D. No. (GET): 2

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1986	39.000	5200.000	11.000
12/1986	43.000	5227.000	16.000
01/1987	62.000	11175.000	38.000
02/1987	32.000	5475.000	17.000
03/1987	11.000	5497.000	9.000
04/1987	6.000	5210.000	9.000
05/1987	12.000	5159.000	9.000
06/1987	9.000	5068.000	8.000
07/1987	1.000	1306.000	2.000
08/1987	6.000	5937.000	9.000
09/1987	22.000	15015.000	27.000
10/1987	14.000	15138.000	28.000
11/1987	11.000	14953.000	30.000
12/1987	4.000	9451.000	21.000
01/1988	29.000	14394.000	25.000
02/1988	8.000	13057.000	21.000
03/1988	17.000	9488.000	15.000
04/1988	0.000	6948.000	17.000
05/1988	3.000	10184.000	0.000
06/1988	27.000	9764.000	10.000
07/1988	133.000	10897.000	17.000
08/1988	65.000	10098.000	13.000
09/1988	58.000	10307.000	15.000
10/1988	59.000	10628.000	15.000
11/1988	46.000	9875.000	14.000
12/1988	25.000	10923.000	16.000
01/1989	23.000	10329.000	16.000
02/1989	13.000	8834.000	8.000
03/1989	22.000	10755.000	8.000
04/1989	0.000	952.000	1.000
05/1989	0.000	860.000	1.000
06/1989	0.000	884.000	0.000
07/1989	0.000	902.000	0.000
08/1989	0.000	793.000	0.000
09/1989	0.000	2173.000	0.000
10/1989	0.000	823.000	0.000
11/1989	0.000	845.000	0.000
12/1989	18.000	19541.000	0.000
01/1990	11.000	16799.000	0.000
02/1990	40.000	13281.000	0.000
03/1990	2.000	479.000	0.000
04/1990	0.000	828.000	0.000
05/1990	56.000	19034.000	0.000
06/1990	63.000	16830.000	0.000
07/1990	17.000	9915.000	0.000
08/1990	30.000	9474.000	0.000
09/1990	18.000	8258.000	0.000
10/1990	16.000	9613.000	0.000

Data Storage File: con10.dsf

Case Name: 2 NMG00219S29E10F00PACONOCO "10 A" STATE001

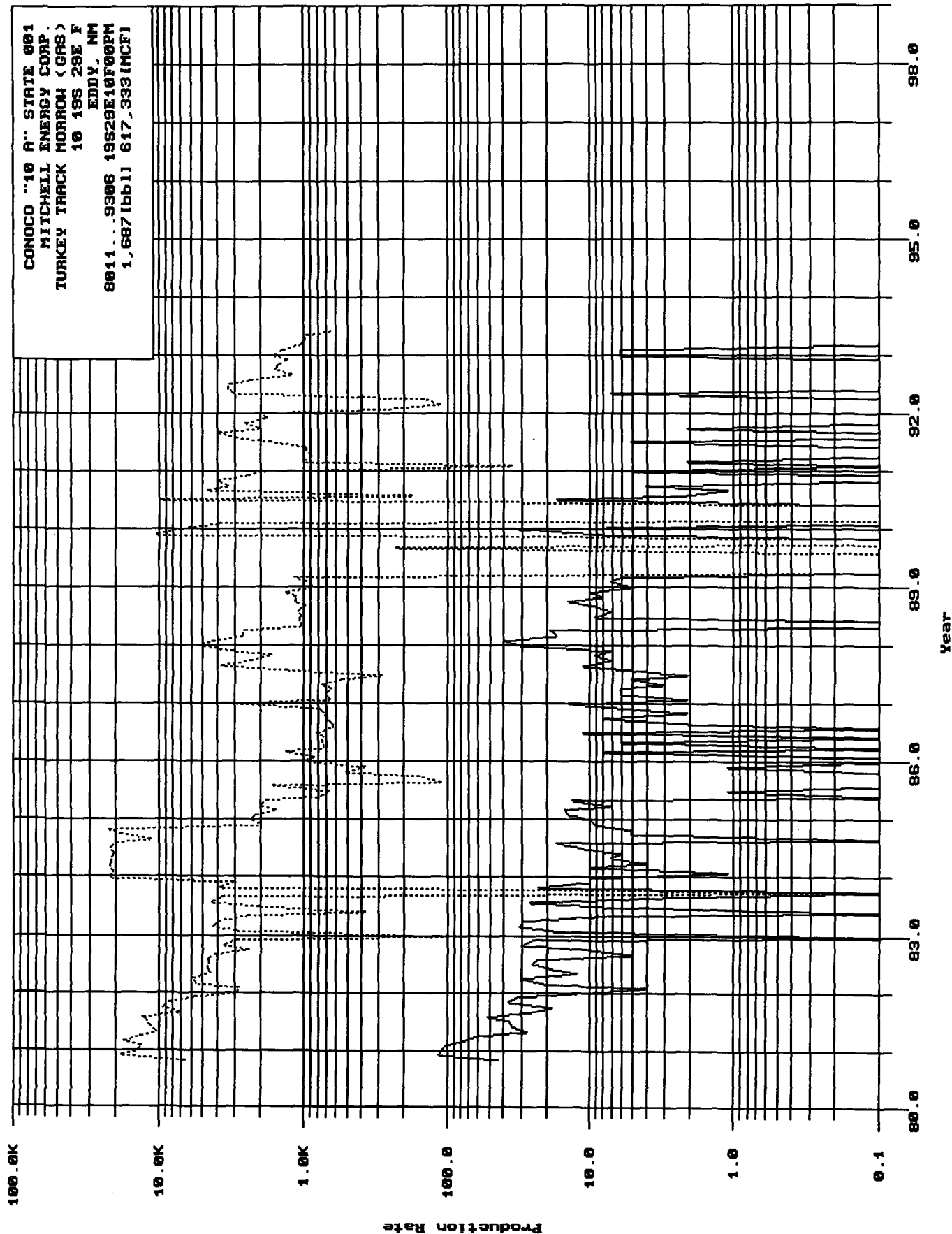
Case I.D. No. (GET): 2

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1990	61.000	16391.000	0.000
12/1990	0.000	15420.000	0.000
01/1991	120.000	14950.000	22.000
02/1991	12.000	2749.000	5.000
03/1991	2.000	3807.000	13.000
04/1991	1.000	3402.000	6.000
05/1991	0.000	3288.000	7.000
06/1991	2.000	3498.000	7.000
07/1991	13.000	5664.000	0.000
08/1991	15.000	2182.000	2.000
09/1991	63.000	14248.000	30.000
10/1991	53.000	10666.000	21.000
11/1991	33.000	13724.000	11.000
12/1991	57.000	14688.000	17.000
01/1992	31.000	12994.000	8.000
02/1992	0.000	0.000	0.000
03/1992	0.000	0.000	0.000
04/1992	3.000	2252.000	0.000
05/1992	6.000	12500.000	6.000
06/1992	0.000	10473.000	0.000
07/1992	0.000	13834.000	0.000
08/1992	0.000	13330.000	0.000
09/1992	0.000	10914.000	0.000
10/1992	15.000	12471.000	50.000
11/1992	6.000	11426.000	45.000
12/1992	1.000	12618.000	0.000
01/1993	0.000	12274.000	0.000
02/1993	0.000	10819.000	22.000
03/1993	21.000	11980.000	31.000
04/1993	3.000	9882.000	28.000
05/1993	0.000	11314.000	31.000
06/1993	0.000	10944.000	30.000

RATE VERSUS TIME



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Date: 10/15/93

Data Storage File: conl0.dsff

Case Name: 1 NMG00219S29E10F00PMCONOCO "10 A" STATE001

Case I.D. No. (GET): 1

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1982	29.000	3547.000	0.000
12/1982	25.000	2922.000	0.000
01/1983	0.000	97.000	0.000
02/1983	18.000	2949.000	0.000
03/1983	31.000	4216.000	0.000
04/1983	29.000	3904.000	0.000
05/1983	9.000	2433.000	0.000
06/1983	0.000	370.000	0.000
07/1983	8.000	2037.000	0.000
08/1983	26.000	4296.000	0.000
09/1983	3.000	3657.000	0.000
10/1983	0.000	0.000	0.000
11/1983	23.000	3764.000	0.000
12/1983	10.000	3016.000	0.000
01/1984	10.000	21000.000	0.000
02/1984	1.000	20605.000	0.000
03/1984	10.000	21552.000	0.000
04/1984	4.000	20759.000	30.000
05/1984	7.000	20999.000	30.000
06/1984	6.000	20244.000	30.000
07/1984	11.000	21185.000	0.000
08/1984	17.000	19652.000	0.000
09/1984	0.000	11311.000	0.000
10/1984	5.000	17822.000	0.000
11/1984	5.000	21646.000	0.000
12/1984	9.000	1989.000	0.000
01/1985	10.000	2282.000	0.000
02/1985	14.000	2146.000	0.000
03/1985	15.000	1580.000	0.000
04/1985	7.000	1966.000	0.000
05/1985	13.000	1819.000	0.000
06/1985	0.000	756.000	0.000
07/1985	1.000	660.000	0.000
08/1985	0.000	1622.000	0.000
09/1985	0.000	109.000	0.000
10/1985	0.000	154.000	0.000
11/1985	0.000	509.000	60.000
12/1985	1.000	377.000	62.000
01/1986	0.000	987.000	62.000
02/1986	0.000	849.000	0.000
03/1986	8.000	1310.000	0.000
04/1986	0.000	728.000	0.000
05/1986	6.000	738.000	0.000
06/1986	0.000	721.000	0.000
07/1986	11.000	806.000	0.000
08/1986	0.000	628.000	0.000
09/1986	2.000	634.000	0.000
10/1986	8.000	681.000	0.000

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Date: 10/15/93

Data Storage File: conl0.dsff

Case Name: 1 NMG00219S29E10F00PMCONOCO "10 A" STATE001

Case I.D. No. (GET): 1

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1986	2.000	719.000	2.000
12/1986	5.000	770.000	3.000
01/1987	14.000	2913.000	13.000
02/1987	2.000	650.000	1.000
03/1987	6.000	690.000	2.000
04/1987	6.000	642.000	3.000
05/1987	3.000	733.000	3.000
06/1987	5.000	549.000	2.000
07/1987	2.000	288.000	1.000
08/1987	5.000	1298.000	4.000
09/1987	11.000	3673.000	10.000
10/1987	7.000	2364.000	7.000
11/1987	9.000	1661.000	5.000
12/1987	7.000	3033.000	11.000
01/1988	31.000	5050.000	18.000
02/1988	39.000	4309.000	21.000
03/1988	17.000	2602.000	13.000
04/1988	19.000	2589.000	30.000
05/1988	0.000	1039.000	6.000
06/1988	0.000	1061.000	0.000
07/1988	9.000	1044.000	0.000
08/1988	7.000	1078.000	0.000
09/1988	9.000	983.000	4.000
10/1988	14.000	1131.000	6.000
11/1988	8.000	1143.000	5.000
12/1988	10.000	1327.000	2.000
01/1989	5.000	866.000	0.000
02/1989	7.000	948.000	0.000
03/1989	6.000	1168.000	0.000
04/1989	0.000	0.000	0.000
05/1989	0.000	0.000	0.000
06/1989	0.000	0.000	0.000
07/1989	0.000	0.000	0.000
08/1989	0.000	0.000	0.000
09/1989	0.000	230.000	0.000
10/1989	0.000	0.000	0.000
11/1989	0.000	0.000	0.000
12/1989	8.000	10244.000	0.000
01/1990	32.000	7531.000	0.000
02/1990	0.000	3836.000	0.000
03/1990	0.000	0.000	0.000
04/1990	0.000	0.000	0.000
05/1990	0.000	0.000	0.000
06/1990	0.000	0.000	0.000
07/1990	17.000	9698.000	0.000
08/1990	2.000	178.000	0.000
09/1990	1.000	4576.000	0.000
10/1990	4.000	3348.000	0.000

Data Storage File: conl0.dsff

Case Name: 1 NMG00219S29E10F00PMCONOCO "10 A" STATE001

Case I.D. No. (GET): 1

Chart Reference No.: 2

Scenario Number: 1

DATE	OIL	GAS	WATER
11/1990	0.000	3910.000	0.000
12/1990	0.000	2470.000	0.000
01/1991	5.000	1808.000	0.000
02/1991	0.000	35.000	0.000
03/1991	2.000	1002.000	5.000
04/1991	0.000	873.000	10.000
05/1991	0.000	948.000	0.000
06/1991	0.000	976.000	0.000
07/1991	5.000	1677.000	0.000
08/1991	0.000	2826.000	0.000
09/1991	0.000	3868.000	18.000
10/1991	2.000	2041.000	7.000
11/1991	0.000	2493.000	0.000
12/1991	0.000	1801.000	0.000
01/1992	0.000	2012.000	0.000
02/1992	0.000	235.000	0.000
03/1992	0.000	113.000	0.000
04/1992	0.000	146.000	0.000
05/1992	7.000	3028.000	0.000
06/1992	0.000	3350.000	0.000
07/1992	0.000	3270.000	0.000
08/1992	0.000	2336.000	0.000
09/1992	0.000	1222.000	0.000
10/1992	0.000	1571.000	0.000
11/1992	0.000	1495.000	0.000
12/1992	0.000	1286.000	0.000
01/1993	6.000	1590.000	0.000
02/1993	6.000	1411.000	0.000
03/1993	0.000	1037.000	0.000
04/1993	0.000	986.000	0.000
05/1993	0.000	962.000	0.000
06/1993	0.000	651.000	0.000

CONOCO "10A" STATE #1Y
TURKEY TRACK ATOKA(GAS) OCD#-97310
TURKEY TRACK MORROW (GAS) OCD#-97305
SECTION 10F, T19S, R29E
EDDY COUNTY, NEW MEXICO

Mo/yr	Upper (ATOKA)		Lower (MORROW)		TOTAL PRODUCTION		MONTHLY % of TOTAL PRODUCTION	
	GAS	OIL	GAS	OIL	GAS	OIL	ATOKA (%)	MORROW (%)
	(MCF/M)	(BOPM)	(MCF/M)	(BOPM)	(MCF/M)	(BOPM)		
Aug-92	2,336	0	13,330	0	15,666	0	0.15	0.85
Sep-92	1,222	0	10,914	0	12,136	0	0.10	0.90
Oct-92	1,571	0	12,471	15	14,042	15	0.11	0.89
Nov-92	1,495	0	11,426	6	12,921	6	0.12	0.88
Dec-92	1,286	0	12,618	1	13,904	1	0.09	0.91
Jan-93	1,590	6	12,274	0	13,864	6	0.11	0.89
Feb-93	1,411	6	10,819	0	12,230	6	0.12	0.88
Mar-93	1,037	0	11,980	21	13,017	21	0.08	0.92
Apr-93	986	0	9,882	4	10,868	4	0.09	0.91
May-93	962	0	11,314	0	12,276	0	0.08	0.92
Jun-93	651	0	10,944	0	11,595	0	0.06	0.94
Jul-93	1,651	0	8,672	0	10,323	0	0.16	0.84
Aug-93	1628	0	10154	0	11782	0	0.14	0.86

12 MO TOTALS 17,826 12 146,798 47 164,624 59

ATOKA = 17,898 MCFequiv
MORROW= 147,080 MCFequiv
TOTAL PRODUCTION = 164,978 MCFequiv

Last 12 month fraction of total production from ATOKA = $17,898/164,978 = .1085$

Last 12 month fraction of total production from MORROW = $146,080/164,978 = .8915$

PROPOSED ALLOCATION FORMULA :

(TOTAL PRODUCTION) X (.1085) = TURKEY TRACK ATOKA (GAS) OCD#-97310

(TOTAL PRODUCTION) X (.8915) = TURKEY TRACK MORROW (GAS) OCD#-97305

OXY USA
Inc.

4

3

OXY USA
Inc.

Mitchell Energy
Corp.

9

Conoco "10-A" State 1Y
10

Mitchell Energy
Corp.

Southland Royalty
Company

16

Southland Royalty
Company

15

19

Note:

Application to Commingle the
Atoka & Morrow Formations
in the Conoco State "10-A" #1Y well.



MITCHELL ENERGY CORP.

TURKEY TRACK PROSPECT

Eddy County, New Mexico

Offset Operators to
Communitized Area

W/2 Sec. 10, T-19-S R-29-E
Conoco State "10-A" #1Y

Date: 11-1-93

Scale: 1" = 2000'

MEMORANDUM

JUN 22 1993 DCT
GC
File

TO: E. R. Earles / Midland
FROM: Mike O'Donnell / Property Administration / MND-3N
DATE: June 18, 1993
SUBJECT: PROPOSED COMMINGLING
3943-01 Conoco "10A" State #1Y (Atoka & Morrow Dual)
Eddy County, New Mexico

In response to your June 8, 1993 memorandum to Jerry Taylor on the above subject, we have made a review of our files, Title Opinions and the current Transcripts of Ownership. Based on this review we find that ownership of the WI, RI and ORRI as to the two (2) zones is common, therefore subject to Regulatory approval, we find title to be in satisfactory condition for commingling.

All operations on this well are subject to OA-882, OA-886, and OA-887 and should be conducted accordingly.

Should you have any questions or if we can be of any assistance, please advise.



MAO'D:sc
03943.mao

cc: Jerry W. Taylor / Land / MND-4N
Larry Cunningham / Midland
Mark Whitley / Production / MND-4N
Cheryl Thompson

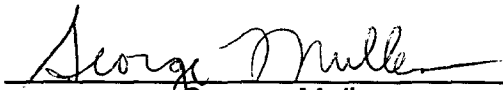
I Agree.
JOC

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of Mitchell Energy Corporation's Application for Exception to Rule 303-A for its Conoco "10A" State Well No. 1-Y was sent to each of the below named offset operators by certified mail on November 15, 1993.

OXY USA, Inc.
Box 50250
Midland, TX 79710

Southland Royalty Company
c/o Meridian Oil, Inc.
Box 51810
Midland, TX 79710-1810



George Mullen