

Amoco Production Company (USA)

Post Office Box 68 Hobbs, New Mexico 88240

S. J. Okerson District Superintendent

January 6, 1983

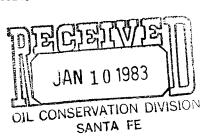
File: SJO-31-WF

Re: Application to Downhole Commingle

State "W" Well No. 1

South Carlsbad Morrow and Atoka Gas Pools

Eddy County, New Mexico



State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Approval is hereby requested to downhole commingle the State "W" Well No. 1 in accordance with NMOCD Rule 303-C.

This well is located 1980' FNL x 1980' FEL, Section 3, T-23-S, R-26-E, Eddy County, New Mexico and is dually completed in the South Carlsbad Morrow (gas) and South Carlsbad Atoka (gas) zones. Attached is a map showing the subject well and the offset operators. Since completion of the well in 1973, the Morrow zone flowed up a tubing string while the Atoka zone produced up the tubing-casing annulus. See attached before workover wellbore sketch. Consequently the reservoir pressure in both zones has depleted to the point where minimal flow rates are being achieved from both zones. During a recent workover (1982) the Morrow zone was shut-in by setting a retrievable bridge plug above the Morrow perforations. The Atoka zone was stimulated with acid and is currently producing up the tubing string from below a packer. See attached after workover wellbore sketch. Due to the low flow rate achieved it is believed the Atoka zone will not economically produce up the annulus. Before and after workover wellbore sketches are attached. We feel commingling both gas zones and producing through a single tubing string will enhance the economic operation of the well and prevent waste by allowing us to produce the remaining reserves.

Page Two

In support of our request, we submit the following facts:

1. The latest 24 hour productivity tests are as follows:

Date	BOPD	BWPD	MCFPD	Perforations
Atoka * 12-11-82	0	0	94	10,740'-78'
Morrow ** 8-02-82	0	4	97	11,331'-655'

* Atoka now producing up tubing.

** Latest test recorded - Morrow shut-in during workover (8/4/82-12/10/82). Copy of GOR tests are attached.

- 2. Neither zone produces more water than the combined oil limit as determined in Rule 303, paragraph C.
- 3. We estimate the value of the commingled production stream will not be less than the sum of the values of the individual streams. The gas produced from both of these zones are sold to El Paso Natural Gas Company under the same contract. Adjustments are made for BTU content. The BTU test are as follows:

Atoka - 1,023 BTU/CF @ 14.73 PSIA, 60°F, Dry. Morrow - 1,022 BTU/CF @ 14.73 PSIA, 60°F, Dry.

Copy of the tests are attached.

- 4. Both zones to be commingled have common ownerships.
- 5. Estimated bottom hole pressures are:

Atoka 2887 PSI Morrow 2857.1 PSI

Copies of the BHP-Buildup tests are attached.

6. Recommended gas alotments are as follows:

Atoka Reserves 362 MMCF

Morrow Reserves 839 MMCF 1201 MMCF

Atoka Allotment = $\frac{362}{1201}$ = 30% Monthly

Morrow Allotment = $\frac{839}{1201}$ = 70% Monthly

Note: Both zones produce at approximately the same rate.

- 7. The fluids from this well are very minimal, averaging 1.5 BBLs per day. The produced fluids should be compatible and commingling these fluids should not result in precipitates which might damage the reservoirs. Since both Morrow and Atoka formations are of Pennsylvanian Age, their formation fluids are very similar in chemical makeup.
- 8. All offset operators have been notified by registered mail. (Copy of reciepts attached.)

January 6, 1983 File: SJO-31-WF Page Three

9. Other supporting data attached are: list of all offsetting operators, production decline curves for each zone, cummulative gas production curves, and proposed wellbore configuration for commingling.

If you have any questions, contact Charles M. Herring (505) 393-1781.

Yours very truly,

Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Drawer DD
Artesia, NM 88210

J. M. Allen - Houston, TX w/attachments

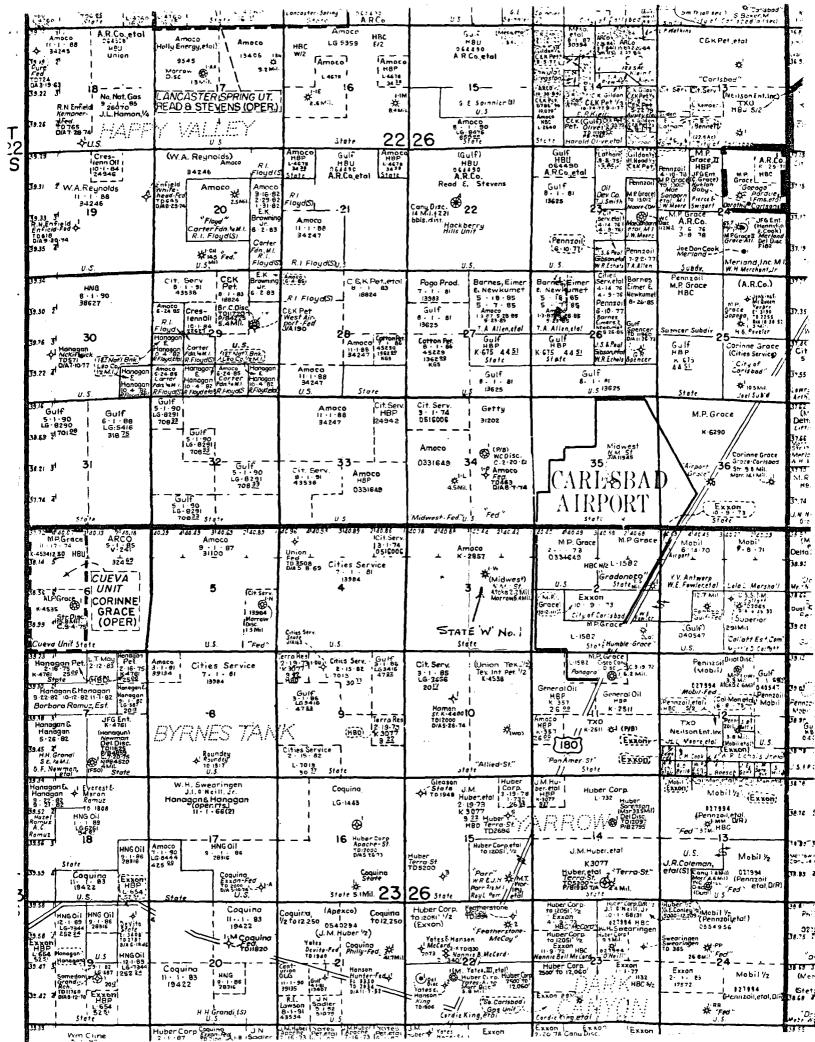
Offset Operators

Texas International Petroleum Corporation 3535 NW 58th St. Suite 300 Oklahoma City, OK 73112

General American Oil Company of Texas P. O. Box 128 Loco Hills, NM 88255

Cities Service Company P. O. Box 1919 Midland, TX 79702

Michael P. Grace II P. O. Box 1418 Carlsbad, NM 88220



NEW MEXICO OIL CONSERVATION COMMISSION STONE STO

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

All distances must be from the outer boundaries of the Bection AN Operator Lease CILL CONSERVATION DIVI State "W" Amoco Production Company SANTA FE Range Unit Letter Section Township G 23-S 26-E Eddy 3 Actual Footage Location of Well: 1980 1980 East North feet from the line and feet from the Ground Level Elev. Dedicated Acreage: Producing Formation 3286' South Carlsbad Morrow MORROW 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? 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Assistant Admin.</u> Amoco Production Company Date 12-16-82 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, and that the some is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No.

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Amoco Production Comp

FILE	 	

	ENGINEERING CHART	APPN
SUBJECT State "W" We,	// No. 1 (BEFORE HOV. 1982 WOZKOVER)	DATE 11-10-81
	1980 FEL of Sect 3, T235, RZGE	BY Steve Bates
	lexico Elevation @GL=3286 @ DF=3	303' @ KB=3304.
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Spud 172" hole on 7/18/72		
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W/370 SX. Cont circulated.		
	7cMT@13001	
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8 8 " 32 # S-80 CSA 5370		
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//.995"77		
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	S (selectively sho	t w/ 146 perfs)
	PBD@ 11,759'	
41 " 11.6# 5-95 CSA 11,815		
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TCMT @ 10,200'	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	TDC 11,850'	
	PBD@ 11,759'	



Amoco Production Company

ENGINEERING CHART

SHEET	NO.	

APPN

DATE 1-5-83 BY FAW

SUBJECT State "W" Well No. 1

(after Nov., 1982 Workover)

Unit G, 1980' FNL x 1980' FEL, Sec. 3, T-23-5, R-26-E Eddy County, NM

Completed Nov. 72 Spud hole on 7-18-72 G.L. 3286 K.B. 3304.5

12年"CSA 370' 34.6# , J-55, CMT = 370 Sx. Circ. 175" Hole.

85 C3A 5370 32 +, 5-80 (temp sur.) CMT 4/105 3x. TCMT@1300 11 Hole.

> PSA 10,685' 2 3/8" TBG TO SURF.

TCMT by Tmp Sur 620' 5q. . esg leak apx 5352 - 5530'

TCMT @ 10,200

Atoka Perfs: 10,740'-757 4/2 SPF Atoka Perfs: 10,770-778 7/2 SPF

RBP 5A 10,849'

Morrow Perfs: 11,331-655 42 3 P.F.

+= " CSA 11,815" 11.0 = , 5-95 CIM 44005 TONTO 10,200' 76 166

PETD' 11,759

SANTA FE, NEW MEXICO 87501

Form C-116 Revised 10-1-78

GAS-OIL RATIO TESTS

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No well will be assigned an allowable greater than the amount of oil produced on the efficial test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the prof 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 Divinlen.

will be 0.60. Gas volumes must be reported in MCP measured at a pressure base of 15,025 pals and a temperature of 60° F. Spottic growity base

Arport coons pressure in lieu of tubing pressure for any well producing through cooling.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Division in recordance with Rule 33) and appropriate post rules.

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

Admin. Analyst

(Tide)

7:

GAS-OIL RATIO TESTS

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₩111 be 0.50. Can volumn thust be reported in MCF measured at a pressure base of 15,025 paid and a temperature of 65° %. Specific gravity base

Report costing pressure in linu of lubling pressure for any well producing through costing.

Rule 131 and appropriate pool rules. Kell original and one copy of this report to the district office of the New Mexico Oll Connervation Divising in accordance with

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

Asst. Administrative Analyst

(1:40)

PLOT 2

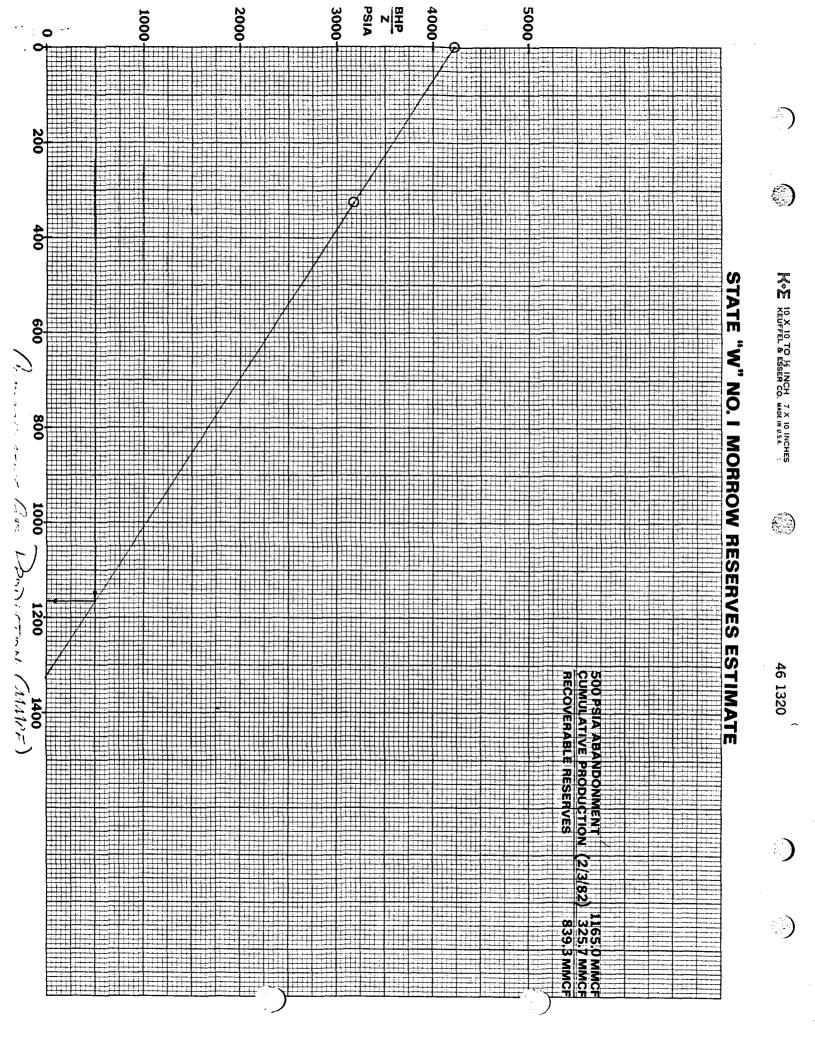
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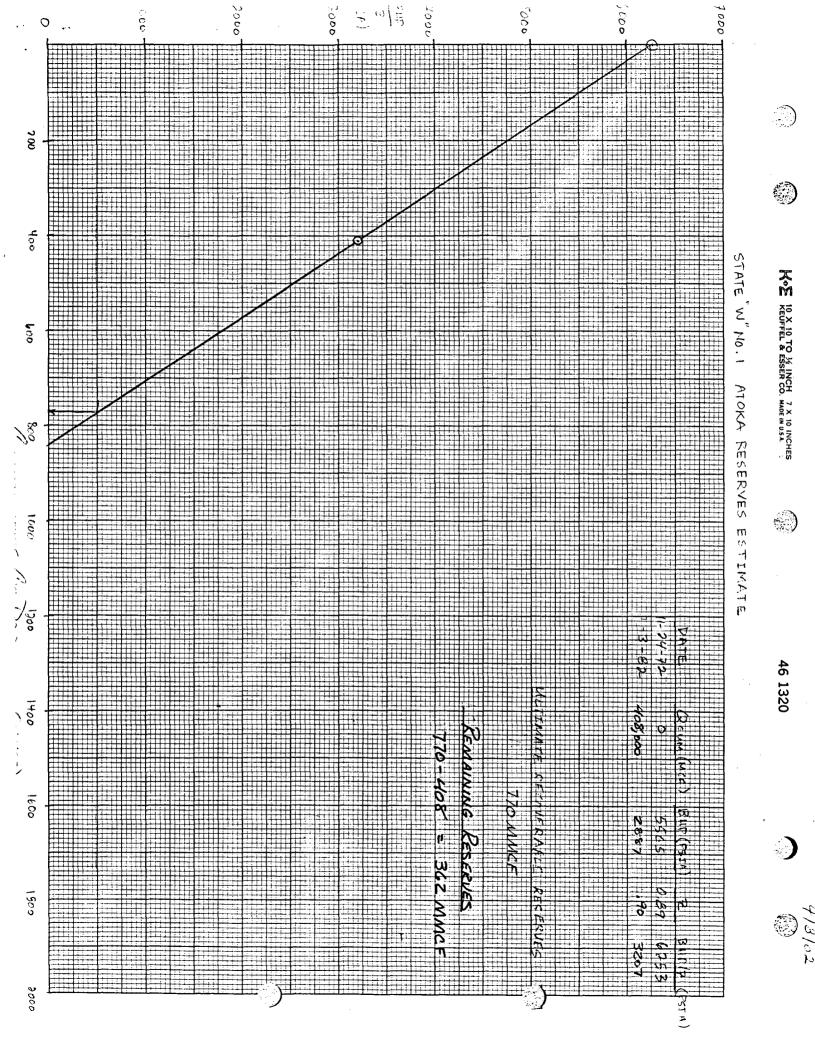
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Amoco Production Company

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BY ÉAW

DATE 1-5-83

SHEET NO

ENGINEERING CHART

SUBJECT State W Well No!

(DROPOSED CONFIGURATION for COMMUNGLING)

Unit G, 1980' FNL x 1980' FEL, Sec. 3, T-23-5, R-26-E Eddy County, NM

Completed Nov. 72 Spud hole on 7-18-72 C.L. 3286 K.A. 3304.5

12年"CSA 370" 34.6# , J-55, CMT = 370 SX. Circ 175" Hole.

8 % COA 5370 32t, 5-80 (temp sur.) CMT 1105 3x. TCMT@ 1300 11 Hole.

TEMT by Tmp Sur 620' 58 cogleak apx 5352-5530

SET DKR @ APPIOX 10,650' 23/8" TBG TO Surf.

Atoka Perfs 10,740: 757' W/2 50+ Atoka Perfs: 10,770'-778' 1/2 sp

TCMT @ 10,200

. Morrow Perfs: 11,331'-655' 425FF

+= " CSA 11,815" 11.6 + , 5-95 Clist 4 4005x Tent@ 10,200' 7 E 106.

11,850 TD: FETO: 11,759

P 323 550 814 r 323 550 815 r 323 33U 813 RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL NO INSURANCE COVERAGE PROVIDED-NO INSURANCE COVERAGE PROVIDED-NOT FOR INTERNATIONAL MAIL **NOT FOR INTERNATIONAL MAIL** (See Reverse) (See Reverse) (See Reverse) Genera POSTAGE CERTIFIED FEE CERTIFIED FEE CERTIFIED FEE EES SPECIAL DELIVERY SPECIAL DELIVERY SPECIAL DELIVERY RESTRICTED DELIVERY RESTRICTED DELIVERY RESTRICTED DELIVERY 뜐 £ ٤ E SHOW TO WHOM AND DATE DELIVERED SERVICES OPTIONAL SERVICES RN RECEIPT SERVICE SHOW TO WHOM AND DATE DELIVERED CONSULT POSTMASTER SERVICE SHOW TO WHOM AND DATE DELIVERED CONSULT POSTMASTER CONSULT POSTMASTER OPTIONAL SERVICES SERVICE -60 SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY SHOW TO WHOM, DATE, AND ADDRESS OF OPTIONAL SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED ¢ SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY TOTAL POSTAGE AND FEES 1-89 TOTAL POSTAGE AND FEES 89 **TOTAL POSTAGE AND FEES** POSTMARK OR DATE POSTMARK OR DATE POSTMARK OR DATE PS Form 3800, PS Form 3800. Form 3800, JAN 1983

P 323 550 816 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

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of them a

S. J. Okerson
District Superintendent

January 6, 1983

File: SJO-29-WF

Re:

Downhole Commingling of

The State "W" Well No. 1

South Carlsbad Morrow and Atoka Gas Pools

1980' FNL x 1980' FEL Section 3, T-23-S, R-26-E Eddy County, New Mexico

Texas International Petroleum Corporation 3535 NW 58th Street Suite 300 Oklahoma City, OK 73112

Gentlemen:

Amoco Production Company, as operator of the State "W" Well No. 1, hereby notifies you that we have applied to the NMOCD for Administrative Approval to downhole commingle the subject well.

Our plans are to place a packer above the Morrow and Atoka gas zones and produce both through a single tubing string. Commingling will enhance the economic operation of the well and allow us to economically recover the remaining reserves.

If you have no objections to the commingling, sign below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Artesia, one copy to this office and retain one copy for your records. Addressed, stamped envelopes have been provided for your convenience.

Yours very truly,

1. Ohur

APPROVAL

Company

y: forther

Date: 1/27/83

Attachments

District Superintender

NC.





Amoco Production Company (USA)

Post Office Box 68

S. J. Okerson District Superintendent

January 6, 1983

File: SJO-29-WF

Re:

Downhole Commingling of

The State "W" Well No. 1

South Carlsbad Morrow and Atoka Gas Pools

1980' FNL x 1980' FEL Section 3, T-23-S, R-26-E Eddy County, New Mexico

Cities Service Company P. O. Box 1919 Midland, TX 79702

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APPROVAL

Company:

CITIES SERVICE COMPANY

Attachments