DOWNHOLE COMMINGLING, LEA COUNTY, NEW

DOCKET 10123181

Case MO.

7403

Application

Transcripts.

Small Exhibits

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2,88 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

November 11. 1991

Re: Mr. Gary Kilpatric Montgomery & Andrews	CASE NO. 7403 ORDER NO. 8-6317
Attorneys at Law Post Office Box 2307 Santa Fe, New Mexico 87504-2307	Applicant:
	ARCO Oil and Gas Company
Dear Sir:	
Enclosed herewith are two copies of Division order recently entered in	
Yours very truly, JOE D. RAMEY Director	
JDR/fd	
Copy of order also sent to:	
Hobbs OCD x Artesia OCD x Aztec OCD	
Other	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7403 Order No. R~6817

APPLICATION OF ARCO OIL AND GAS COMPANY FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on Movember 4, 1981, at Santa Fo, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 18th day of November, 1981, the Division Director, having considered the testimony, the record, and the recommondations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, ARCO ULL and Gas Company, is the owner and operator of the E. L. Steeler WN Well No. 5, located in Unit J of Section 19, Township 23 South, Range 37 Cost, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks authority to commingle Jalmat Gas Pool and Langlie Hettix Uil Pool production within the wellbore of the above-described well.
- (4) That from the Jalmat gas zone, the subject well is capable of low marginal production only.
- (5) That from the Langlie Mattix oil zone, the subject well is capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

-2-Case No. 7403 Order No. R-6817

- (7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.
- (8) That to afford the Division the opportunity to assess the patential for wasta and to expeditiously order appropriate remadial action, the operator should notify the Mobbs district office of the Division any time the cubject well is shut-in for 7 consecutive days.
- (9) That is order to allocate the commingled production to each of the commingled zones in the subject well, all of the commingled gas production should be allocated to the language, and all of the commingled aid production to the language Mattix zone.

IT IS THEREFORE ORDERED:

- (1) That the applicant, ARCO Oil and Gas Company, is hereby sutherized to commingle Unlast and Langlia Mattix production within the wellhere of the E. t. Steeler IN Well No. 5, located in Unit 3 of Section 19, Jounshia 21 South, Range 37 East, NAPM, Lee County, New Mexico.
- (1) That all of the commingled jet production shall be allocated to the Jalkat Gas Popl and all of the commingled oil production shall be allocated to the Langile Mattix Pool.
- (3) That the operator of the subject well shall immediately notify the Division's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall expountmently present, to the Division, a plan for remodial action.
- (4) That jurisdiction of this cause is retained for the catty of such further orders as the Division may deem abcessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove above and sed.

STATE OF NEW MEXICO
OXL CONSERVATION DIVISION

JOE D. RAMEY

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STATE OF NEW MEMICO ENERGY AND MINERALS DEPARTMENT OIL COMPRESSION DIVICION STATE LAND OFFICE BLDG. SANTA LE, NEW MEXICO

4 November 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of ARCO Oil and Gas Company for downhole commingling, Lea County, New Mexico.

CASE 7403

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DEFORE: Daniel S. Nutter

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Gary Kilpatric, Esq. MONTGOMERY AND ANDREWS Paseo de Peralta Santa Fe, New Mexico 87501

1		2
2	APPEARANCES	
3		
4	For Doyle Hartman: William F. Carr, Esq. CAMPBELL, BYRD, & BLACK P.A.	
5	Jefferson Place Santa Fe, New Mexico 87501	
6	Santa Pe, New Mexico 07501	
7		
8		
9		
10		
11	FNDEX	
12		
13	B. L. STOKELY	
14	Direct Examination by Mr. Kilpatric 4	
15	Cross Examination by Mr. Nutter 13	
16		
17	STATEMENT BY MR. CARR	4
18		
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3	ЕХНІВІТЅ	
4		
5	Applicant Exhibit One, Plat	6
6	Applicant Exhibit Two, Schematic	6
7	Applicant Exhibit Three, Schematic	6
8	Applicant Exhibit Four, Tabulation	7
9	Applicant Exhibit Five, Well History	8
10	Applicant Exhibit Six, Letter	1 1.
11	Applicant Exhibit Seven, List	11
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19 20		
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2	Q	And by whom are you employed and in
3	what capacity?	
4	λ.	I'm employed by ARCO Oil and Gas Compan
5	as a petroleum engir	eer.
6	0	And would you please give a brief de-
7	scription of your du	ties as a petroleum engineer?
, 8	Λ.	I do reservoir studies and recommend
9	drilling and workove	rs and do log interpretation.
10	Q.	Have you testified before the Division
11	and had your qualifi	cations accepted and made a matter of
12	record?	
13	A.	Yes.
14	Q	Are you familiar with the application
15	that ARCO has submit	ted in this case today?
16	Α.	Yes, 1 am.
17		MR. KILPATRIC: Mr. Examiner, are the
18	witness' qualificati	ons accepted?
19		MR. NUTTER: They are.
20	Q	What is it that ARCO is seeking today
21	by its application?	
22	۸.	ARCO is seeking approval for the down-
23	hole commingling of	the Langlie Mattix-Seven Rivers-Queen
24	formation and the Ja	lmat-Yates-Seven Rivers formation, in
25	ARCO's E. L. Steeler	No. 5 Well.

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Jalmat-Yates-Seven Rivers perforations in order to get them to flow and the Langlie Mattix-Seven Rivers-Queen perforations produced only five barrels of oil per day and five barrels of water per day after being fraced with 60,000 gallons, plus 102,000 pounds of sand.

So it has been a problem well to complete and the -- it is our feeling that if we keep it separate we will not be able to produce the Langlie Mattix-Seven Rivers-Queen because the gas that it makes prevents it from being able to pump. We just haven't been able to produce any fluid from it since we set the packer over it.

Let me next direct your attention to what has been marked as ARCO Exhibit Number Four, a two-page exhibit, and ask you to explain that.

ARCO Exhibit Number Four is the gas/oil ratio tests which have been made on the well, showing the production to be five barrels of oil per day and five barrels of water per day, and 40 Mcf of gas per day from the Langlie Mattix-Seven Rivers-Queen. Now this was done while the wells were unseparated.

> MR. NUTTER: While they were unseparated? I mean before -- it was while they were

MR. NUTTER: While they were separated.

separated.

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2	Λ.	rrior to setting the packer, but it was
3	prior to completion	of the Jalmat.
4		MR. NUTTER: Okay. So this was a pure
5	test on the	
6	Λ.	Yes, it is, this is a pure test on the
7	Jalmat. And the Jal	lmat-Seven Rivers-Yates is a flowing test
8	with them separated	after it had been completed.
9		MR. NUTTER: Well, this is a flow test
10	up the annulus.	
11	Λ.	Frat's right, up the annulus. We did
12	have to pump it thro	ough the tubing for some time before we
13	got it cleaned up en	ough to flow on its own.
14		MR. NUTTER: You have a sliding sleeve
15	in there.	
16	A.	Yes, we do.
17		MR. NUTTER: And pumped it off and
18	flowed it through th	e annulus.
19	Λ.	That's right, and it's been a real
20	problem to get going	•
21	Q.	Let me next direct your attention to
22	what has been marked	as ARCO Exhibit Number Five and ask you
23	to explain that exhib	bit, which is a multi-page exhibit, one,
24	two, three, four, fi	ve pages exhibit.
25	Λ.	ARCO Exhibit Number Five is the daily

well history of the well containing all the actions that have been taken, that have taken place since the casing was set, showing the bottom hole pressure tests taken, various pipe settings, packer setting, and so forth. It will verify the information in the wellbore diagrams and in the other sets of information.

0 Mr. Stokely, what is the current status of this well?

A. The well is completed but shut-in. It is as indicated in the first wellbore diagram. It has rods and pump in it. It has a Baker Locset packer and it is shut-in awaiting the outcome of this hearing.

Q Have you applied to the Division for dual completion?

A. We have not because our information to date indicates that we would have to abandon the Langlie Mattix at this -- if we're not granted permission to commingle.

What are the bottom hole pressures of \(\) the Langlie Mattix and Jalmat?

A. Bottom hole pressures of the Jalmat are 215 pounds and the Langlie Mattix is 195 pounds. That's corrected to equivalent depth.

O All right, and what pressure differential for the two zones does this correspond to?

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the Jalmat is by natural flow, is that correct?

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That is true; however, over a period

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of time in the area we're talking about, the Jalmat terds to
load up with water and it is anticipated that if we keep this
flowing through the annulus in a period of time we'll have
to take some measures to unload the water off, and during that
time we will lose production.

Mr. Stokely, next let me direct your attention to ARCO Exhibits Six and Seven and ask whether or not you have -- to explain those exhibits and tell the Division what you've done as far as contacting the offset --

ARCO Exhibit Number bix is a letter that we sent to all the offset operators and we sent that register ed mail. And Exhibit Number Seven is a list of the offset operators that we sent this to.

And are you aware to any objection from any of the offset operators?

Me had some conversation with Mr. Aycock with Doyle Hartman, and we were able to agree on an approach to this. The subject of our conversation was the allocation of cas between zones.

gas should be allocated for allowable purposes to the Jalmat formation and ARCO has no objection to that.

6. And have you received any correspondence from any of the other offset operators stating that they

1	12
2	have no objection?
3	A. Yes. We have correspondence here from
4	Mr. James L. Evans saying he approves, and from Coquina Oil
5	Corporation saying they approve.
6	We have heard from none of the others
7	except Mr. Aycock.
8	Mr. Stokely, how would you allocate the
9	gas from the commingled well?
10	A. In light of our conversation with Mr.
11	Aycock, we would agree that we would recommend it be allocate
12	to the Jalmat formation.
13	Q on your opinion will the granting of
14	ARCO's application in this case to downhole commisqle the
15	production from the Jalmat and Langlie Mattix formations
16	provent waste and protect correlative rights?
17	A. Yes, it will. It will prevent waste in
18	that we will have to abandon this Langlie Mattix formation
19	if we don't get this permission.
20	Q Were ARCO Exhibits One through Seven
21	prepared by you or under your supervision?
22	A. Yes, they were.
23	MR. KILPATRIC: Mr. Examiner, I move
24	the introduction of ARCO Exhibits One through Seven.
25	MR. NUTTER: Exhibits One through Seven

2.

13 2 will be admitted in evidence. 3 MR. KILPATRIC: And we have no further 4 questions. 5 6 CROSS EXAMINATION 7 BY MR. NUTTER: 8 Mr. Stokely, this list of offset opera-0. 9 tors doesn't include Hartman or Aycock. Why were they talking 10 about the allocation of the gas? 11 Well, Mr. Hartman is an offset operator 12 and I thought we had sent him a copy. 13 He's not listed on Exhibit B or Exhibit 14 Seven. 15 MR. KILPATRIC: That's correct. He's 16 not listed on those exhibits but we have in fact been in 17 several conversations and contact and Mr. Carr is here today 18 representing him. MR. NUTTER: He probably owns the gas 19 20 rights here on one of these offsetting leases. 21 Yes, he does. 22 MR. CARR: He's also the operator of a 23 well in Unit E, the Samedan Hughes Federal, which produces 24 from the --

MR. NUTTER: Is that a gas well there,

we've dedicated the acreage part to this well and part to

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1 15 2 another well. 3 Have you already gotten approval for --Q. Yes, sir. A. 5 -- simultaneous dedications? 6 7es, sir. 7 Okay. All you're looking for here today 8 is just the commingling, not the --9 That's right. 10 -- gas --0. 11 No, sir, just permission to try to produce that Langlie Mattix because there's no way we can pro-12 13 duce it economically any other way. 14 Do you think if you had a casing vent 15 that you'd fail to produce it? It won't pump. Is it a lack 16 of venting on the thing, or what? 17 It is a lack of venting and the small 18 casing, 5-1/2 casing, I think would be difficult to make it 19 work. 20 Couldn't run a vent string, then. Q. 21 It would not likely be trouble free. 22 We'd probably have problems with the vent string. 23 Okay. Now you mentioned that the pres-24 sures were 215 for the Jalmat and 195 for the Langlie Mattix 25 corrected to a common datum. What were the actual pressures?

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Do you have that anywhere?

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A. Well, we had a 200 pound shut-in casing pressure on the Jalmat and the actual pressure was measured on the Langlie Mattix and it was measured by bottom hole pres-

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And how much was it?

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1. 195.

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Q. Okay, so in other words, you took your 215 shut-in casing pressure on the Jalmat ---

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A. And used the table.

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-- adjusted to the datum in the Langlie

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Mattix.

sure bomb.

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Q.

Q.

Q.

Yes, sir.

15

Where you had 195.

16

A. Yes, sir.

17

And that 200 shut-in casing pressure

corrected to 215.

19

A. That's right.

20

g. These are at the Langlie Mattix inter-

21

face?

22

A. Yes, sir.

23

g Okay.

24

MR. NUTTER: Are there any further

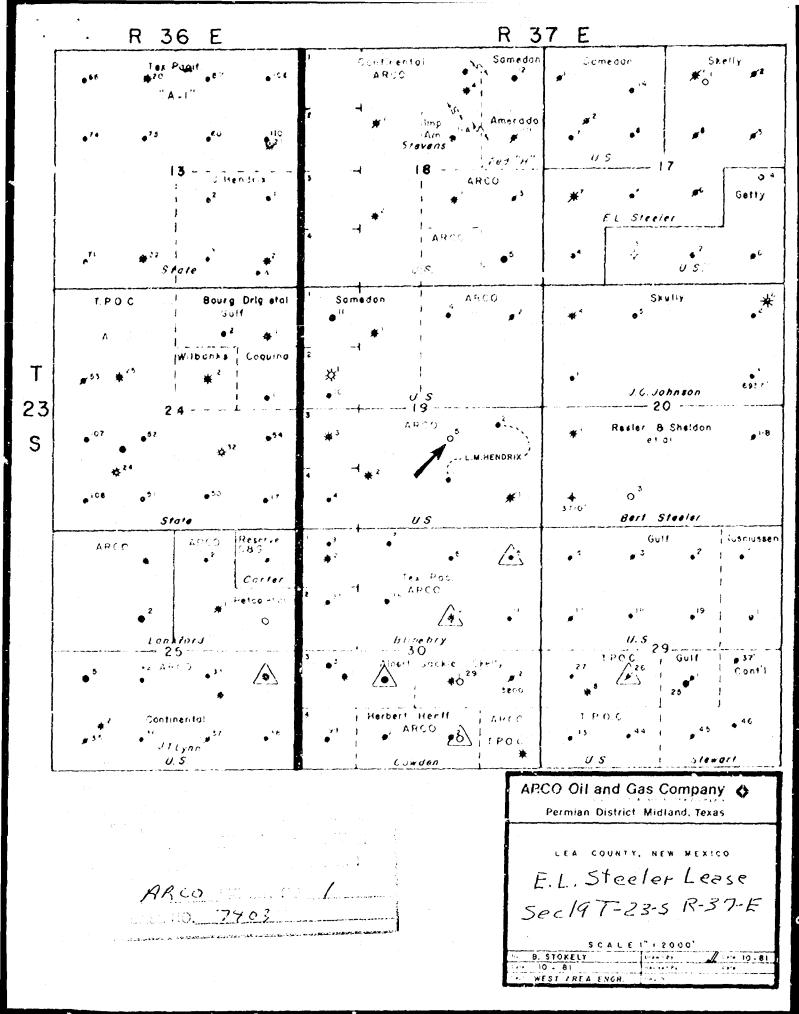
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questions of the witness? He may be excessed.

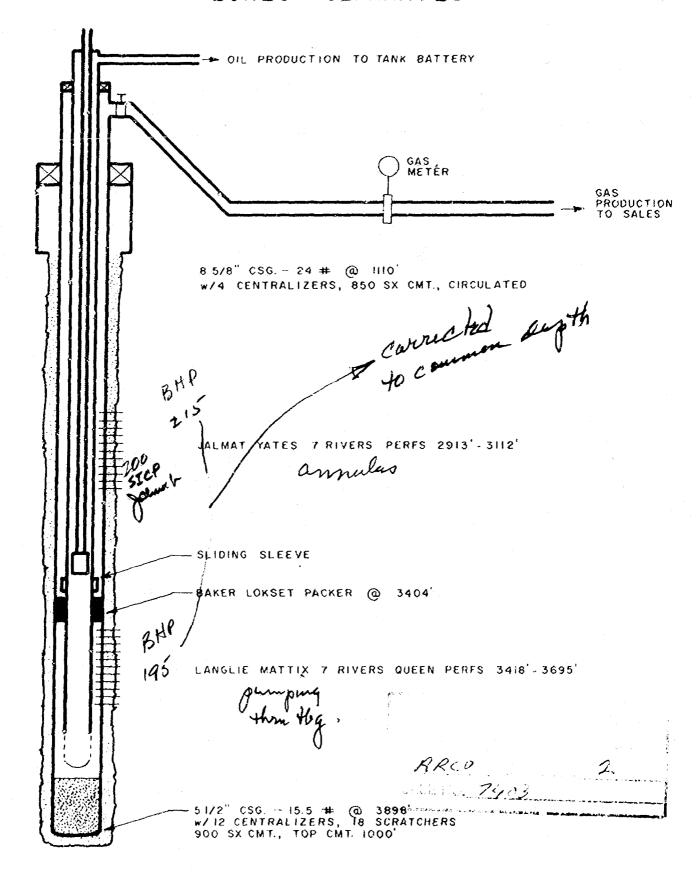
1 17 2 Do you have anything further, Mr. Kil-3 patric? MR. KILPATRIC: Nothing further, thank 5 you. 6 MR. NUTTER: Mr. Carr? 7 MR. CARR: I just have a very brief 8 statement. 9 Mr. Hartman is of the opinion that what 10 ARCO is recommending is consistent with what the Commission 11 did in Case 7057, in which they allocated gas and oil between 12 the Jalmar and Langlie Mattix Pools. We believe what they're 13 asking for is reasonable and will give them the necessary in-14 centive and ability to produce the Langlie Mattix, and we 15 support the application. 16 MR. NUTTER: Thank you. 17 Does anyone else have anything to offer 18 in Case Number 7403? 19 . We'll take the case under advisement. 20 21 (Hearing concluded.) 22 23 24 25

Rt. 1 Box 193-B Sansa Fe, New Meako 27501 Phone (505) 455-7409 is a continue, and correct indepth of the heart. The property of the heart. The property of the heart.

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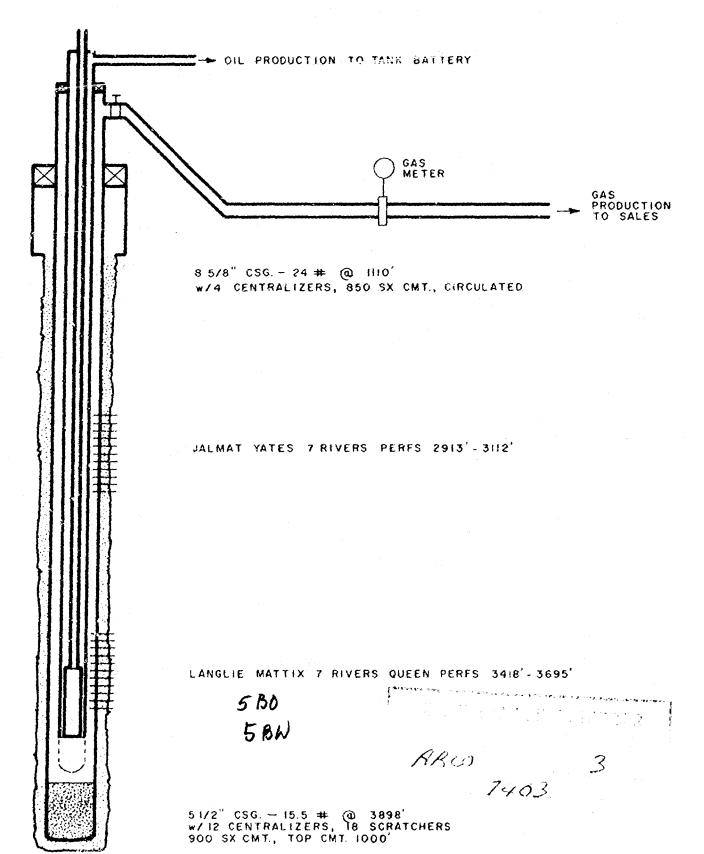


ARCO OIL & GAS COMPANY E. F. STEELER NO. 5 ZONES SEPARATED



ARCO OIL & GAS COMPANY

E. F. STEELER NO. 5 ZONES COMMINGLED



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			I hereby certify that the above information is true and complete to the best of my knowledge and belief.				EXHIE	SIT "A) ** -	page	1	 8000	RATIO CULET/EBL	GAS - 01L	באברום! (צ	٠	

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	Report casing pressure in lieu of tubing pressure for any well producing through cusing. East original and one copy of this report to the district office of the New Mexico Oli Conservation Commission and appropriate pool rules.	Gae volumes must be reported in NCF messured at a pressure base of 15.025 pala and a temperature of 60° F.	No well will be essigned an allowable greater then the amount of oil produced on the official test. Ouring gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the iccated by more than 25 precent. Operator is encouraged to take advantage of this 25 percent tolerance in order that increased allowables when authorized by the Commission.					E. L. Steeler WN		TASE VAVO	0. Box 1610, Midland,	ARCO Oil & Gas Co.
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September 25, 1981

instructions: This form is used during dulling or workner operations. If lesting, coring, or p number all dull stem tests sequentially. Attach description of all cores. Wark performed by Pr completion. Report official or representative feet on "final" form. I stemit "laterim" sheets on Wednesday of the week in which oil string is set. Submit weekly for worknesses and following describing work performed, a "Interim" sheets until final tly than every 30 days, or (2)

			C. A. Doubletting	
District		County or Parish		State
Permian-West		Lea		New Mexico
field		Lease of Unit		Well no.
Jalmat		E.L. Steeler WN		5
Case and depth as of E.Od a.m.	Complete record for each day wh	ille strilling ür muikovar in progress	and the same of th	ya 1968 - Panggan (1966) bili ya milikuwan 🕏 sa milikuwan dining 1966, ah disambananya Marinagalian
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3898 'TD 6/25/81

3805 PBD

Prep to swab LM zone & run BHP survey// Bled off thg & esg. Csg flwg gas. Pmpd 25 bbl of 2% KCl da csg to kill well. Unseated pkr, inst BOP. POH, rec WL tool. Ran BP jt tbg, perf sub, 2 jts 2-3/8" tbg, Baker Lok-set pkr, on-off tool w/ 1.56 ID, 6' 2-3/8" tbg sub, Baker sliding sleeve w/1.81 1D & 109 jts 2-3/8"OD tbg. Set tbg @ 3505'. Tbg pecf 3470-73', Pkr @ 3404', on-off tool @ 3402', sliding sleeve @ 3394'. Swbd tbg for 12 hrs w/pkr swinging. Csg started to gassing. Set pkr & cont'd swbg tbg to pit. In 4 hrs swbd 0 BO & 26 BW. (-84 BW). (-110 BL).

6/26/81

Prep to flow Jaluat gas, run LM BHP// 14 hr SITP 150#. 16 hr SICP 125#. In 5 hrs swbd LM, rec 1 BO & 9 BW. 1FL 3000', FFL 3150'. Ran btm hole press bomb w/24 & 72 hr clock in hole @ 12:30 PM, 6/25/81. SI for 24 hrs. (AFE \$299, 400; \$293, 871)

6/29/81

RD PU// 6/26 18 hrs SITP 150#, SICP 190#. Op csg, bled gas off to a lite blow. Pld press survey. In BHP 157#, 24 hr BHP 183#. Set plug @ 3402'. Op sleeve @ 3394'. Swbd csg thru tbg, rec 6 BW, no oil in 8 trips. IFL 3000', FFL 3250'. SION. 6/27 Swbd 0 BO & 4 BW. TFL 3000'..Gas broke around csg. Flwd thru tbg. Closed sliding sleeve & pld plug. Ran 2 x 1½ x 12' pump, 1 2' x 3/4" pony rod, 119 3/4" rods, 2 6', 2 4', 1 2-3/4" pony rod. Started well pmpg. SICP 200#.

6/30/81

TOTPS// RD unit.

(AFE \$299,400; \$299,691)

the above is cornet

VD J.W. Schmidt

6/30/81

rist. Drlg. Supt.

from preputation and distribution frocudures Manual Section 10, ling, Pages 86 and 87

RRCO

tristructions: This form is used during dulling or welfover considers. If history, coming or perforating show formation name in describing work performed from the first requestions. Attach description of all comes. Work performed by Producing Section will be reported on "Interim" shoets until head completion. Report official or representative test on "Final" form, 1) Submit "Interim" shoets when filled out but not final from the completion on Wednesday of the week in which oil string is set. Submit weekly for warrange and following catting of oil string until completion.

District		County or Parish			State	
Permian-West		I,ea			New Mex	xico
Field		Leave of Unit	W.W.			Walfins.
Jalmat Date and depth	Complete record for each day w	E.J. Steeler		and the same of th	en e] 5
Date and deput as of 8 00 a.m.	Complete record for Cash day w	and drining or worklover in p	rogin e a a			
5/29/81 3898'TD 3817'PBD	Well flwg on 5	oit to clean up/ 0# TP thru 1" o (AFE \$299,400;	rifice plate,	flwg in head	is, making	gas
6/01/81	Tstg// 5/30- CP 110#, wtr. 6/01- CP salt wtr. Head or 6 Bbl salt w	i up about ever	J/64" ck. Flar 2 hrs. Making			
6/02/81	Flow tstg well/ Flow well from Flow from csg, thru l" plate.	// csg 3 hrs, quit	making wtr. 1			
6/03/31	Close sleeve & 6/02-SITP 200#, 296 MCF, dry ga	SICP 210#, Flo	w well from csg ce.	g. СР 40#, Т	P 110#. M	aking
6/04/81	WSI for 24 hr b Close sliding s pull plug. Lost 14"OD bars thru Ran 24 hr BHP su TP 200#.	leeve @ 3302'. t tools in hole profile. Tools	Bled TP to O#. Plug went the left in 2-3/8	iru profile. 3" tbg @ 330	Ran 9'.	
5/05/81	RD PU// SITP 100#, SICP pump, 116 3/4" a					
3/08/81	Temp drop from a Jalmat SI WO pro		e Mattix side	did not pump	up.	
5/24/81	Prep to trip tbg (temp dropped 6/		ed well off. P	ld rods & pu	mp. CP 13	0#. SION.
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nature	jo	ate	Title		an marin material en antidad and are	Andrew Commission of the Commi
WD J.W. Schmidt		6/30/81	Dist.	Drig. Supt.	e desar relativamento deservidado de laborar la como de	** *
form preparation and distribution frocedules Manual Section 10,	The second secon	The second secon			•	/
Nng, Pages 66 and 87				11	CRUNT	A

ricained.

Permian-West	County or Farish Lea	New Merico	
Field	lease or Unit	We'l no.	
Jalmat Date and cepth	E. L. Steeler WN Complete record for each day while dulling or worrever in progress	5	
as of 8 00° a,m.		ž	
4/13/81 3898 TD 3805 PBI	(temp dropped 3/18/81.) 4/11-In 24 hrs pmpd 7 BO & 2 BW. 4/12-In		
•	24 hrs pmpd 13 BO, 5 BW & 40 MCFG, GOR 3077:1.		
4/14/81	Tstg// In 24 hr pmpd 4 BO, 2 BW & 50 MCFG, GOR 12,500:1.		
4/15/81	Pump trouble// O BO, O BW.		
4/16/81	No report//		
4/20/81	Pump trouble, no prod// 4/16-In 24 hrs pmpd 0 BO, 0 BW & 50 MCFG.		
4/21/81	No test// Pld pump.		
4/22/81	Tstg// In 24 hrs pmpd 19 BO, 2 BW & 39 MCF, GOR 2053:1.		
4/23/81	Tstg// In 24 hrs pmpd 17 BO, 5 BV & 35 MCF, GOR 2059:1.		
4/24/81	-Tstg// In 24 hrs pmpd 6 BO, 11 BW & 40 MCF, GOR 6667:1.		
4/27/81	WO prod equip, temp drop// 4/24-In 34 hrs pupd 4 BO, 5 BW & 35 MCF.		
5/15/81	On 24 hr test 5/03/81 pmpd 3 BO, 2 BW & 38 MCF, GOR 1	2,667:1.	
5/27/81	Rel "FL" Tool, spot acid// MIRU PU. POH w/rods & pump. Tag btm for fill. POH w/2 Lok-set pkr "FL" tool (1.51 ID) & sliding sleeve (1.8 2-3/8" tbg & 4' perf nipple below pkr, pkr set @ 3212	1 ID). Ran 3 jts of	
5/28/81	Test Jalmat perfs// 7:00 AM TP 175#, CP 210#. Spot 250 gal 15% acid, per 3112!. POH w/2-3/8" tbg. Welex perf'd 1 JSPF @ 2913 30, 37, 44, 50, 56, 62, 68, 73, 90, 94, 99, 3024, 36, 63, 68, 76, 3108, 12! (23 holes). Lost gun in hole. OS. POH w/perf gun. Well started flwg. Pmpd 30 bbl in hole. Ran 2-3/8" tbg & slide sleeve in hole. NU. plugged. Unable to swab. 5/28/81 CP 200#.	3, 18, 24, 52, 58, RIH w/ KCL wtr	

The above is correct

J.W. Schmidt

For form preparation and distribution the Precedures Manual Section 10, Drilling, Fages E6 and 87

5 6/01/81

Dist. Drig. Supt.

Note in the Contract Contract

on these the form is used throughouters or who were specifieds. It telling, conna, of sectioning these formation and be doesning work participally for the section of the section of the formation of the formatio

i men	**	County of Fixeish	State	
Permian Deb	- West Ar	ea Lease or Unit	New Mexico	
Jalmat		F I Steeler WN	5	
t de pot septh. Po et 6 to a m.		Ochaptete means for each day while drilling or warkover in progress	and the second for the second contract of the second secon	
3/09/81	3898' TD 3805'PBD			
3/10/81		SITP 200#. Swbd Langlie Mattix fm 3418-3695', IFL 2800'. In 10 hrs swbd 10 BO & 21 BLW. Last hr rec 1 BL. FFL 3300'. (+14 BO, -1321 BLW).		
3/11/81		SITP 175#. Swbd Langlie Mattix 3418-3695', IFL 2 In 10 hrs swbd 7 BO & 15 BIW. (421 BO, -1306 BIW show of gas.		
3/12/81		- Trip sand bailer// SITP 175#. Swab Langlie Mattix fm 3418-3695', I In 2 hrs swbd 1 BO & 2 BLW, FFL 3300'. (-1304 BW Cood show of gas. Rel pkr. Tag fill @ 3655'. Po 2-7/8" tbg. PU 2-3/8" tbg & Hydrostatic bailer. 3655-3695'. Bailer quit loading. Pull 8 stds. S	, +22 BO) DH. J.D RIH. CO	
3/13/81		- Trip out w/bit// POH w/ Hydrostatic bailer. RHH w/bailer. CO sd Rerun bailer to 3725' unable to make any hole. Po 4-3/4" bit to 3725'. Circ sd out 3725-3805'. Pu	OH. Ran	
3/16/81		3/14- POH w/bit. Test tbg in hole to 3500#, 1 jt bull plug mud anchor, perf nipple, SN, & 119 jts 2-3/8" tbg. RD BOP, Hook up WH. Swab Langlic Mattix fm 3418-3695', IFL 3100'. In 4½ hrs swbd 24 BLW, tr of oil, FFL 3650'. SION. (+22 BO, -1580 BLW). 3/16- Swbd 3418-3695', IFL 3100'. In 8 hrs swbd 35 BLW w/tr of oil, FFL 3650'. (+22 BO, -1545 BLW).		
3/17/81		- TOTPS// Swab Langlie Mattix 3418-3695', 1FL 3100'. In 6 h 4 BO & 19 BLW, FFL 3650'. (+26 BO, -1526 BLW). Ra 1½" x 12' pump, 1 2' x 3/4" pony rod, 146 3/4" rod 3/4" pony rod. RR. SION.	n 2" x	
3/18/81		WO prod equip, temp drop//		
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J. W. Schmidt

For tona payers on not done button for Frithers Regular Costion 10, bellen, Fryes 10 and 87

4/15/81

Tille Dist. Drlg. Supt.

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State County or Harish T. Street Permian - West Area New Mexico alle Grittent Forter Jalmat E. L. Steeler WN is as they are no triber to pic siess

total and relate as of EGS Amil

2/02/81 3898'TD

- MORT. WOOU, temp drop//

LD DP. Fan 512" K=55 LTC 15.50# Jones & Laughlin Steel Corp esg as follows: 1 Hewco TS @ 3898', 2 jts 5½" esg, 1 Homeo FC @ 3817' & 93 jts 512" csg. Ran 12 cent & 18 scratchers. Contd 512" csg w/ 650 sx HLC w/15# salt & 250 sx Cl H thickset, didn't circ cmt. PD @ 2:45 PM CST, 1/30/81. Cut off csg & NU well head. Wait 8 hrs, ran temp survey. TOC @ 10901. RR 6:00 PM CST, 1/30/81.

3/02/81

- Displ hole w/KCl wtr// (temp dropped 2/02/81) 2/28- MIRU Pb. Inst BOF. SION. Ran 4-3/4" bit, esg scraper & 2-7/8" J-55 thg to 3805". Test tbg to 4000#. SION.

3/3/81

RU, tstd esg to 1500#. Displ $5\frac{1}{2}$ " esg w/ 2% KCl wtr. Spot 300 gal 15% NE HCl acid across perf interval 3418-3595". POH. Welex ran cat bond log 3802' to surf. TOC @ 1110'. Perf'd Langlie Mattix selectively 3418-3695' (29 holes). Ran pkr to 3308' on 2-7/8" (bg. BDF 500#. Acidized Johnat 3418-3695' w/ 3000 gal 15% NE HCl acid, 3 ball sealers every 3.5 bbls acid. Ball off perfs @ 4000# w/33 balls on perfs. Max 4000#, min 900#, AIR 4 8PM @ 2000#, ISIP 1500#, 5 min 1000#, 1 hr 0#. Rol pkr. Pam do thru perfs. Reset pkr @ 33081. SION. (~130 BIM).

3/4/81

- Prep to frac// Swbd perfs 3418-3695' 30 hrs. Nec 22-BLW. Last 7 hrs rec 1 PLW, show of ofl. TEL 400', FFL 3800'. (-108 BLW.)

3/5/81

Swbd 3418-3695'. Roc 2 BLM. 1FL 3300'. Made 2 swab runs. FFL 33001. Dresser fracid Longlie Mattix fm 3418-3695! w/ 40,000 gals gel wtr, 20,000 gal CO₂ carrying 69,000# 20/40 sd & 33,000# 10/20 sd in 3 equal stages using 7/8" 1.1 gravity hall healers, 10 following stage 1 & 10 following state 2. No apparent fall action, but trtg press were 200# higher on each consecutive stage. Min 1800#, Max 2500#, AIR 15 BPM, ATP 2000#, ISIP 1000#, 15 min 800#, 1 hr 400#, 3 hr 350#. Flush in 0 10:20 AM. Started flwg back 0 1:20 PM. (-1088 BLW). Flwd back 37 bbls in 42 hrs on 1/2 to 3/4" ck. FTP 50# on 3/4" ck, (-1051 BLW). SION.

3/6/81

- Prep to re-frac// On cheeling frac tanks found only 40% of frac fluid vol had been paped. Will re-frac Langlie Mattix fm. Swbd Langlie Mattix 3418 3095', JFL 800'. In 7 hrs swbd 15 39W, JFL 3300'. Last 2 hrs rec 1 BEM w/rr of eil. Rel pkr. Check for fill up. Tag fill 0 3745'. Reset pkr 0 3308'. Load annulus w/ 2% ECT wir. Became subglinglie Mattix fm. (-472 Pt).

Heaton is count

Sout Sware J. W. Schwidt on family operation as part of the com-nection of the term of factors 10, with the Franciscopy of 67. 4/15/81

Dist. Drlg. Supt.

Burn Carlot Allow The state of the state of

ARCO Oil and Gas Company Permian District Post Office Box 1610 Midland, Texas 79702 Telephone 915 684 0100



Gentlemen:

RE: E.L. Steeler #5 (Unit Letter J)
Section 19, T23S, R37E
Lea County, New Mexico
Application for Downole Commingling

ARCO Oil & Gas Company has made application to dual complete and downhole commingle the subject well. A copy of the application is attached for your information.

If you have no objection to this commingling, will you please sign in the space provided and forward the approved copy to our attorney, Mr. Gary Kilpatric in the enclosed stamped and addressed envelope.

If the Oil & Gas Division is unable to grant administrative approval, it is anticipated that the case will be heard at the next examiners hearing on November 4, 1981.

We trust that the attached application will provide enough information for your approval. If more information is required, please contact the writer.

Yours very truly,

B. L. Stokely

(915) 684-0152

BLS: cn

Attachments

MRCO

7803

APPROVED:

E. L. Steeler Lease S/2 Section 19, T-23-S, R-37-E, Lea County, New Mexico

Offset Operators:

Sun Texas Company 1509 West Wall Midland, Texas 79701

Gulf Oil Company P. O. Box 1150 Midland, Texas 79702

Coquina Oil Company P. O. Drawer 2960 Midland, Texas 79702

Samedan Oil Company 900 Wall Towers East Midland, Texas 79701

Getty Oil Company P. O. Box 1231 Midland, Texas 79702

Reserve Oil and Gas Company 312 HBF Building Midland, Texas /9/01

James L. Evans y P. O. Box 1125 Eunice, New Mexico 88231 V= Wanzer offiction
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Dockets Nos. 30-81 and 37-81 are tentatively set for November 10 and December 4, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER REAFIN: - WITHELD AY - M NEMBER 4, 1901

O A.M. - OIE CONTRETATION INVISION CONTINUOUS ROOM STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Mutter, Examin. , or Richard L. Stametr, Alternate Examiner:

- CASE 7396: In the matter of the hearing colled by the Oil Conservation Division on its own motion to permit Sentry Oil Exploration Complex and Lawyer's Surety Corporation to appear and show cause why Farr Well No. 1, located in Unit C of Section 6, Township 31 North, Range 34 East, Union County, New Mexico, should not be ordered plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 7380: (Continued and Readvertised)

Application of Bird Oil Corporation for an uncrthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the uncrthodox Entrada location of a well to be drilled 2110 feet from the North line and 1120 feet from the East line of Section 10, Township 22 Scuth, Range 9 West, the SE/4 NE/4 of said Section 10 to be dedicated to the well.

- CASE 7397: Application of Belco Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Atoka and
 Strawn production in the wellbore of its Kimbley Well No. 1, located in Unit G of Section 21,
 Township 23 South, Range 28 East.
- CASE 7398: Application of El Paso Natural Gas Company for an unorthodox gas well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Wolfcampurenn well, to be drilled 660 feet from the South and West lines of Section 23, Township 26 South,

 Range 30 East, Ross Craw Area, the S/2 of said Section 23 to be dedicated to the well.
- CASE 7399: Application of Texaco, Inc. for a Unit Agreement, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the North Vacuum Abo West Unit Area, comprising 2000 acres, more or less, of state lands in Township 17 South, Range 34 East.
- CASE 7400: Application of Texaco, Inc. for a pressure maintenance project, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in its North Vacuum Abo West Unit Area by the injection of water into the Abo formation through 13 wells located in Sections 15,21,22,27,28 and 34, Township 17 South, Range 34 East, North Vacuum Abo Pool.
- CASE 7401: Application of Morris R. Antwell for an unorthodoxoll well location, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well
 to be drilled 2410 feet from the North line and 330 feet from the West line of Section 21,
 Township 18 South, Range 38 East, Hobbs Grayburg-San Andres Pool, the SW/4 NW/4 of said
 Section 21 to be dedicated to the well.
- CASE 7384: (Continued from October 21, 1981, Examiner Hearing)

Application of Morris R. Antweil for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Abo formation underlying the NE/A SW/4 of Section 5. Township 20 South, Range 38 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7402: Application of MGF Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Strawn formation underlying the tW/4 NW/4 of Section 5. Township 20 South, Range 39 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

- CASE 7403: Application of Arco Oil and Gas Company for downhole commungling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of the

 Jalmat and Langlie Mattix production in the wellbore of its E. L. Steelei WN Well No. 5,

 located in Unit J of Section 19, Township 23 South, Range 37 East.
- CASE 7359: (Continued from October 7, 1981, Examiner Hearing)

Application of Energy Reserves Group for creation of a new gas pool and an unorthodox location, Roosevelt County, New Mexico.

Applicant, in the above-styled cause, seeks creation of a new Cisco gai good to 115 Miller Com-Well No. 1, located in Unit M of Section 12, Township 6 South, Range 33 East.

Applicant further seeks approval for an uncerthodox location for its Miller "A" Well No. 1-Y, to be drilled 1800 feet from the South line and 1700 feet from the East line of Section 11 of the same township. The S/2 of said Section 11 to be dedicated to the well.

CASE 7383: (Continued from October 21, 1981, Examiner Hearing)

Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation underlying the NN/4 of Section 19, Township 19 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost chereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

- CASE 7404: Application of TXO Production Corporation for an unorthodox well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of an infill well to be drilled 2000 feet from the North line and 600 feet from the East line of Section 18, Township 21 South, Range 26 East, Catclaw Draw-Morrow gas pool.
- CASE 7405: Application of Carl Schellinger for dual completion and an unorthodox location, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of his Campbell Station

 Unit Well No. 1, to produce gas from the Abo and Pennsylvanian formations. Applicant further seeks approval of the unorthodox Pennsylvanian location of said well 660 feet from the South and West lines of Section 34, Township 8 South, Range 27 East, the S/2 of said Section 34 to be dedicated to the Pennsylvanian and the SW/4 to the Abo.
- CASE 7406: Application of Depco, Inc. for compulsory pooling, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Abo formation underlying the SE/4 of Section 23, Township 5 South, Range 24 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7407: Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Abo
 formation underlying the NE/4 of Section 23. Township 5 South, Range 24 East, to be dedicated to
 a well to be drilled at a standard location thereon. Also to be considered will be the cost of
 drilling and completing said well and the allocation of the cost thereof as well as actual operating
 costs and charges for supervision, designation of applicant as operator of the well, and a charge
 for risk involved in drilling said well.
- Application of Doyle Hartman for directional drilling, a non-standard proration unit, an unorthodox well location and simultaneous dedication, Lea County, New Mexico.

 Applicant, in the above-styled cause, steks authority to directionally drill his Justis Well No. 10, the surface location of which is 1940 feet from the North line and 120 feet from the West line of Section 20, Township 25 South, Range 37 East, in such a manner as to bottom said well in the Jalmat Gas Pool at an unorthodox location 1980 feet from the North line and 330 feet from the East line of Section 19, Township 25 South, Range 37 East. Applicant further proposes to simultaneously dedicate said well and the Bettis, Royle and Stovall Justis Well No. 1 to an 80-acre non-standard proration unit comprising the E/2 NE/4 of said Section 19.

BEFORE THE NEW MEXICO OIL CONSERVA

PECIEINS ON 1981

IN THE MATTER OF THE APPLICATION OF ARCO OIL AND GAS COMPANY FOR DOWNHOLE COMMINGLING OF THE JALMAT YATES 7 RIVERS AND LANGLIE MATTIX 7 RIVERS POOLS LOCATED IN UNIT J, SECTION 19, TOWNSHIP 23 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.

Case No. 7463

APPLICATION

COMES NOW the applicant ARCO Oil and Gas Company, through its attorneys, Montgomery & Andrews, P.A., and pursuant to the provisions of Rule 303C, applies to the New Mexico Oil Conservation Division for administrative approval to commingle downhole production from the Jalmat Yates 7 Rivers and Langlie Mattix 7 Rivers pools located in Section 19, Township 23 South, Range 37 East, Lea County, New Mexico, and in support of its application states:

- 1. Applicant is the operator of the E. L. Steeler WN #5(J) well located in Unit J, Section 19, Township 23 South, Range 37 East, Lea County, New Mexico.
- 2. The above well was originally completed in the Langlie Mattix 7 Rivers Queen and was dually completed in the Jalmat Yates 7 Rivers Queen formation. The Division Order number authorizing the dual completion will be supplied before the hearing requested herein.
- 3. A current 24-hour productivity test on Division Form C-116 showing the amount of il, gas and water produced from each

zone is attached hereto as Exhibit "A" and incorporated by reference.

- 4. This is a newly completed well with no production history.
- (A) The well was completed in the Langlie Mattix 7 Rivers Queen zone 3-3-81 through perforations 3418'-3695'. These perforations were acidized with 3000 gallons 15% acid & fraced with 40,000 gelled water plus 20,000 gallons CO_2 and 102,000# sand. On pumping test, the well produced 5 BO, 5 BW, and 40 MCF gas in 24 hours.
- (B) The well was dually completed in the Jalmat Yates 7 Rivers formation through perforations 2913'-3012'. The well was completed with natural flow of 296 MCF per day from the Jalmat perforations, flowing through the casing annulus with 40# casing pressure through a 20/64" choke.
- 5. Measured bottom hole pressure for the Langlie Mattix zone is 195 psig. Shut in casing pressure for the Jalmat is 200 psig. This corrects to a bottom hole pressure of 215 psig at 3500', the measurement depth for the Langlie Mattix.
- 6. The Jalmat formation in this well produces no oil or water, so it is not expected to be damaged by the small amount of water produced from the Langlie Mattix zone (5 BWPD). Since there is no commingling of oil, the 5 BOPD produced from the Langlie Mattix should not damage the Jalmat. In the event scale becomes a problem, the two zones can be separated for production if necessary.
- 7. There is no change or commingling of oil, so there will be no change in value of the product. The gas will be sold to the same purchaser (El Paso Natural Gas Co.) who would have

bought the separate streams, and the price will not change on commingling.

- 8. Ownership of the two zones to be commingled is common, including working interest, royalty and overriding royalty.
- A list of the offset operators is attached hereto as Exhibit "B" and incorporated by reference. The offset operators will be notified of the proposed commingling and a statement to that effect will be submitted by the Applicant prior to the hearing requested herein.
- The granting of this Application is in the interest of the prevention of waste and the protection of correlative rights.

WHEREFORE, Applicant prays for administrative approval of this Application pursuant to Rule 303C.3, or in the alternative, if administrative approval cannot be granted, that this Application be set for hearing at the next regularly scheduled Examiner Hearing of the Oil Conservation Division.

Dated October 15, 1981

Respectfully submitted, MONTGOMERY & ANDREWS, P.A.

Santa Fe, New Mexico 87504-2307 (505) 982-3873

Attorneys for Applicant

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

		Report cosing pressure in lieu of tubing pressure for any well producing through cosing. Nell original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in a Rule 101 and appropriate pool rules.	Gae volumes must be reported in MCF measured at a will be 0.60.	No well will be essigned an allowable greater than the amount of oil produced on the official test. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in wilch 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 Commission.				E. L. Steeler WM		LEASE NAME	0. Box 1610, Midland,	AF.CO Oil & Gas Company
		tubing press	MCF meas	rable greate			·	ა -	z o	WELL	Texas 7	
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		igh chaing. Mexico Oil Cons	pressure base of 15.027 pale and a temperatury of 60° F. Specific gravity base	d on the offictal adding the top unit 25 percent total				9-25-81	TEST	DATEOF	- 1-1	7
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	B. L. Stokely 'S Senior Engineer			I her is true ledge i				ப	WATER BBLS.	. ס	Cons	له
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(Tide)	(Signature) O	there		t the above			·	40	GAS M.C.F.	TEST		
				I hereby certify that the above information is true and complete to the best of my knowledge and belief.	EXHIBIT "A" - p	age 1		8000	RATIO CU.FT/88L	GAS - OII		

" September 25 1981

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Calle Revised 1-1-65

Langley Mattix 7 Rivers Queen Lea	County	Cou	n	rs Que	ive	attix 7 R	ley Ma	Lang	Pe			ARCO 011 & Gas Company
TYPE OF Completion Speci	heduled Completion Special	reduled []	Sch							79701	exas	P. O. Box 1610, Midland, J.
	C. harrison	, ,		CHOKE	5	DATE OF	OCATION		LOC		WELL	
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

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 Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 pain and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing precome in lieu of tubing pressure for any well producing through cosing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 305 and appropriate pool rules.

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

B. L. Stokely (Signature)

B. L. Stokely (Signature) (

(Title)

September 25, 1981

NEW MEXICO OIL CONSERVATION COMMISSION GAS - OIL RATIO TESTS

C-116 Heyland 1-1-65

ARCO Oil & Gas Co.	Po	Jal	mat Y	ates 7 Riv	vers	•		Lea								
P. O. Box 1610, Midland, Te	exas	79701	1				TES	E OF T = (X)	Selv	eduled [_]		Cong	detton [7	Spe	ctal 🗶
	WELL		LOC	CATION		DATE OF	= 3(CHOKE	твс.	DAILY		PROD, DURING			·	GAS - OIL
LEASE NAME	но.	U	s	Ţ	я	TEST	1.5	. 1	PRESS.	ALLOW-	TEST HOURS	WATER BOLS.	GRAV. OIL	01L 88L\$,	GAS M.C.F.	RATIO CU.FT/BBL
E. I Steeler WN	5	J	19	235	37E	9-20-81	F	20/64	40	-	24	0	-	0	296	œ
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									2.7							"A" -
																EXHIBIT
	7.	-								•						

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

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 idealed 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 Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 pela and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in flew of tubing pressure for any well producing through casing.

Usil original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

B. L. Stokely (Signature)

B. L. Stokely (Signature)
Senior Engineer

September 25, 1981

E. L. Steeler Lease S/2 Section 19, T-23-S, R-37-E, Lea County, New Mexico

Offset Operators:

Sun Texas Company 1509 West Wall Midland, Texas 79701

Gulf Oil Company P. O. Box 1150 Midland, Texas 79702

Coquina Oil Company P. O. Drawer 2960 Midland, Texas 79702

Samedan Oil Company 900 Wall Towers East Midland, Texas 79701

Getty Oil Company P. O. Box 1231 Midland, Texas 79702

Reserve Oil and Gas Company 312 HBF Building Midland, Texas 79701

James L. Evans P. O. Box 1125 Eunice, New Mexico 88231

STATE OF NEW MAXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7403
Order No. <u>Kalenda</u>
APPLICATION OF ARCD DIL AND GAS COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.
ORDER OF THE DIVISION
BY THE DIVISION:
This cause came on for hearing at 9 a.m. on November 4
19 81 , at Santa Fe, New Mexico, before Examiner Daniel S.
Nutter
NOW, on this day of November , 1981 , the
Division Director, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully
advised in the premises,
FINDS:
(1) That due public notice having been given as required
by law, the Division has jurisdiction of this cause and the
subject matter thereof.
(2) That the applicant, ARCO Oil and Gas Company, is
the owner and operator of the E. L. Steel & WN Well No. 5
located in Unit J of Section 19 , To inship 23 South
Range 37 East , NMPM, Lea County, New Mexico.
(3) That the applicant seeks authority to commingle
Jalmat law Pace and Langlie Mattix Ou Poproduction
within the wellbore of the above-described well.

(4) That from the <u>lalmat</u> zone, the
subject well is capable of low marginal production only.
(5) That from the Langlie Mattix & zone, the
subject well is capable of low marginal production only.
(6) That the proposed commingling may result in the recover
of additional hydrocarbons from each of the subject pools, thereby
preventing waste, and will not violate correlative rights.
(7) That the reservoir characteristics of each of the
subject zones are such that underground waste would not be caused
by the proposed commingling provided that the well is not shut-in
for an extended period.
(8) That to afford the Division the opportunity to assess
the potential for waste and to expeditiously order appropriate
remedial action, the operator should notify the Hobbs
district office of the Division any time the subject well is
shut-in for 7 consecutive days.
(9) That in order to allocate the commingled production
to each of the commingled zones in the subject well, all
allocated to the
allocated to the Jalmat zone, and all of the
percent of the commingled production to the
<u>langlie Mattix</u> zone.
(ALTERNATE)
(9) That in order to allocate the commingled production to
each of the commingled zones in the wells, applicant should
consult with the supervisor of the Hobbs district office
of the Division and determine an allocation formula for each of
the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, ARCO Oil and Gas Company, is
hereby authorized to commingleand
tanglie Mattix production within the wellbore of
the E. L. Steeler WN Well No. 5, located in Unit J of
Section 19 , Township 23 South , Range 37 East ,
NMPM, Lea County, New Mexico.
(2) That the applicant shall consult with the Supervisor
of the Hobbs district office of the Division and
determine an allocation formula for the allocation of production
to each zone in each of the subject wells.
(ALTERNATE)
(2) That all percent of the commingled 1 as
production shall be allocated to the
some and all persont of the commingled il
production shall be allocated to the Langlie Mattix Poal.
zone
(3) That the operator of the subject well shall immediately
notify the Division's Hobbs district office any time the
well has been shut-in for 7 consecutive days and shall concurrent
present, to the Division, a plan for remedial action.
(4) That jurisdiction of this cause is retained for the
entry of such further orders as the Division may deem necessary.
DONE at Santa Fe, New Mexico, on the day and year hereinabove
designated.