CASE NO.

6349

APPlication, Transcripts, Small Exhibits,

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EXAMINER HEARING

IN THE MATTER OF:

Application of Consolidated Oil and Gas, Inc. for downhole com=) mingling, Rio Arriba County, New) Mexico.

CASE 6349

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Lynn Teschendorf, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fo, New Mexico 87501

For the Applicant:

W. Thomas Kellahin. Esq. KELLAHIN & FOX 500 Don Gaspar Santa Fe. New Mexico 87501

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I N D E X

CHARLES PARHAM

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Direct Examination by Mr. Kellahin

Cross Examination by Mr. Stamets

EXHIBITS

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MR. STAMETS: We'll call next Case 6349.

MS. TESCHENDORF: Case 6349. Application of Consolidated Oil and Gas, Inc. for downhole commingling, Rio Arriba County, New Mexico.

MR. STAMETS: Call for appearances in this case.

MR. KELTAHIN: Tom Kellahin of Kellahin and Fox, Santa Fe, New Mexico, appearing on behalf of the applicant, and I have one witness.

MR. STAMETS: I'd like to have the witness stand and be sworn, please, at this time.

(Witness sworn.)

CHARLES PARHAM

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you please state your name, by whom you are employed, and in what capacity?
- A. My name is Charles Parham. I am employed by Consolidated Oil and Gas out of Denver, Colorado, as a Senior Production Engineer.
 - Q. Mr. Parham, have you previously testified

before the Oil Conservation Division, and had vour qualifications as an expert witness accepted?

- A. No. I have not.
- Q Would you state for the Examiner where you obtained your degree and in what field?
- A. I have a BS degree from the University of New Mexico in chemical engineering.
 - 0. What year did vou obtain that degree?
 - A. 1971.
- Q. Subsequent to graduation where have you been employed and in what capacity?
- A. I worked for approximately six years for Gulf Oil Corporation, throughout south Louisiana, as a -- in various capacities of production and drilling engineer, and one year with Davis Oil in south Louisiana, as division engineer, and since April of this year I've been with Consolidated Oil and Gas in my present capacity.
- Q. In your present capacity, Mr. Parnam, have you made a study of and are you familiar with the facts surrounding this particular application?
- A. Yes, I have, and I am familiar with that.

 MR. KELLAHIN: We tender Mr. Parham as an expert witness.
- MR. STAMETS: The witness is considered qualified.

Q (Mr. Kellahin continuing.) Would you refer to what we've marked as Exhibit Number One, identify it and tell me what Consolidated Oil and Gas is seeking to accomplish.

A. Okay. This is a location plat of our Hoyt 1-5, which is in Section 5 of Township 26 North, Range 4 West, Rio Arriba County.

In this case we seek to approval for down-hole commingling in the Gallup and Basin Dakota Formations.

This well is presently completed as a dual.

Q I'll show you Exhibit Two and have you identify that.

A. This exhibit is a present completion schematic of the well. It shows the perforations to the Dakota at 8280 to 8452. This is a gross interval. And the Gallup perfs from 7712 to 7779; this is also a gross interval.

It has been completed in a 5-1/2 inch liner with the top at 4220 and the bottom at 8522.

0. If the Division grants your application for downhole commingling, how will you recomplete the well?

A Well, initial attempt would be made. of course. to pull both strings of tubing. Previous experience has shown in -- well, since both of these zones have been sand/water frac'd and there is sand production historically back from the fracs after initial completion, this sand tends to

stack up on top of the packer and around the tubing.

Initial attempt would be made to pull the tubing from the packer. If this was unsuccessful, we would, of course, have to cut the long string tubing and would hope to leave that packer in place rather than attempt extensive fishing operations, which could result.

- Q. What if any experience have you had with regards to difficulties encountered with Gallup-Dakota dual completions that have been sand fractured?
- A. Insofar -- well, what problems have we encountered insofar as what?
- Q All right. I want you to explain what -what if any experience you've had with Gallup-Dakota dual
 completions, the later life of those dual completions in
 which the wells have been sand franctured, that would cause
 you to request to downhole commingle in the subject well.
- A. Well, of course, during the life of these wells the production has fallen off. We will get to the production history later on, but the primary reason here in requesting the commingling, I should think, is the mechanical aspects of attempting to pull this packer and recompleting it as a dual. Fishing operations could be quite extensive in trying to recover this packer and rerun a packer, to in essence isolate these two zones.
 - 9 I show you what I've marked as Exhibit Number

Three and ask you to identify this.

A. Okay. This was a Form 9-331 filed with the United States Geological Survey in which we requested their approval to downhole commingle this well, and this copy is an approved copy. They have approved it subject to, of course, approval of the New Mexico Oil Conservation Commission.

This well, by the way, is on Federal land in the Jicarilla Apache.

Q. I show you Exhibit Four and ask you to identify that.

A. Okay. This is a tabulation of projected ultimate reserves. Of course, if you would refer to the next two exhibits, also, this -- we'll have to take all three of these in here to give you the whole picture.

The next two exhibits following this one are plots of bottom hole pressure over Z, the compressability factor, plotted against cumulative production, for the Gallup and the Basin Dakota Zones. These projections we have found have proved quite satisfactory in projecting reserves in this area.

By using this technique and projecting to a 50 psig abandonment pressure, we have established ultimate reserves in the Gallum as 4,800,000 Mcf and in the Dakota as 2,600 000 Mcf.

Back on this -- the first exhibit here, cumulative reserves as of 7-1-78, the Gallup had produced 3,546,130 Mcf; the Dakota, 1,472,842 Mcf. The difference between the projected ultimate recovery and the cumulative shows that the Gallup has remaining reserves of 1,242,870 Mcf; the Dakota, 1,127,158 Mcf, which combined total reserves remaining for the two zones of 2,380,028 Mcf, and the percentage figures here are based on these projected remaining reserves. The Gallup percentage remaining reserves, 52.7 percent; the Dakota, 47.3, and this in essence is what we propose as an allocation for the gas produced should this well be commingled.

What recommendations do you have to the Examiner with regards to the allocation of oil between the two zones?

Okay. My initial thoughts on this were to take the cumulative gas production figures from each zone and the cumulative oil production figures and to establish a cumulative GOR. This being necessitated because although oil is produced into the tanks out there in the field, and rather than hang a monthly established figure, the oil is not -- is trucked so that each monthly production is not necessarily what the well has produced in that month but only when the tanks are near capacity do they haul the oil, so that, you know, a monthly figure going back and trying

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And in previous correspondence with Mr. Kendrick in Aztec, he further took my GOR figures and determined a figure -- and this is taking the ratio, for example, with the Gallup I had established a GOR of 101,500 to 1, so taking a ratio of a million cubic feet and this GOR of 101,500 cubic feet per barrel, would give us 9.85 barrels of oil produced from the Gallup per million cubic feet and a like -- a similar calculation for the Dakota, and taking these figures we have come up with a percentage figure for the oil rather than using a -- allocating the gas and then using a GOR, but rather to take the total oil sold and use a percentage figure.

- Q What are those percentages?
- A. 38.5 percent of the oil for the Gallup Zone and 61.5 percent for the Dakota Zone.
- Q I show you what I've marked as Exhibit Number Seven and ask you to identify it.
- A. Okay. This is a copy of the most recent packer leakage test in the well, which in essence is being presented here to give us an idea of the present shutin pressure of the well. The three-day shutin pressure for the Gallup Zone, which on here is indicated as the upper completion, is 425, and the lower completion, the Dakota, 595.

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A These are the latest deliverability tests from each of the two zones. First, all this work is -- was done prior to our establishment that we did have a subsurface problem.

For the Gallup -- this also gives us an indication of present shutin pressures and the capabilities of the two zones.

Q In your opinion, Mr. Parham, will the pressure differentials between the Gallup and Dakota Zones be low enough that there will not be migration between the two zones?

A. I feel that in view of the fact that both zones have been depleted considerably from their initial capacities, the differential in pressure and the ability to draw both of these wells down, I believe line pressures run somewhere in the neighborhood of, well, depending on demand, anywhere from 220 to 300 pounds, and I do not feel that migration between the two zones would be a problem in this well.

Q Mr. Parham, what is the status of ownership between the two zones?

A. The royalty interests and working interests are the same for both zones.

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	Q.	Were	Exhibits	One	through	Nine	compiled	under
your	directio	n or	prepared	by y	you dired	ctly?		

- A. Yes, they were.
- Q In your opinion, Mr. Parham, will the approval of this application be in the best interests of conservation, the prevention of waste, and the protection of correlative rights?

A. Yes.

MR. KELLAHIN: We move the introduction of Exhibits One through Nine.

MR. STAMETS: These exhibits will be admitted.

CROSS EXAMINATION

BY MR. STAMETS:

- Now, Mr. Parham, you indicated the ownership
 is the same throughout. Is the dedication different for
 the two zones?
 - A. The dedication --
- Q Is the B.S. Mesa on 160-acre spacing and the Dakota on 320?
 - A. Yes, sir, it certainly is.
- Q. But even considering that, since there's no difference in ownership there would be no problem with the allocation of production to the owners?
 - A. No, sir. I don't feel that there would be.

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In the early part of this year, of course, the Gallup Zone began logging off, would not sustain production, and of course, shut it in for a period of time, and allow the pressures to build up, and essentially force fluids back into the formation. We could open it up and establish production from the Gallup Zone for a short period of time.

This indicated to us that we had a tubing leak in the Dakota Zone; since the Dakota Zone has historically produced more fluids, we felt like we had communication. The fluid being dropped out in the Dakota Zone, and in essence logging up the Gallup in the -- over a short period of time.

This, of course, is the only indication that we have of communication problems, but I think it is significant indication.

- Have you determined the location of that tubing leak?
- No, sir, we have not attempted any operations at present to locate the leak.
- Will you be replacing the Dakota tubing or the production tubing?
 - A. Yes, sir. Of course, the Gallup was completed

SALLY WALTON BOYD
ERTIFIED SHORTHAND REPORTER
230Plaza Blanca (801) 411-21462
Senta Fo, Not Mexico 87101

with an inch and a quarter string. We would pull that out and rerun an inch and a half string in the commingled well.

- Q So that will take care of the tubing leak?
- A Yes, sir.

MR. STAMETS: Any other questions of the witness? Mr. Kendrick?

MR. KENDRICK: Mr. Parham, you gave me credit for doing the calculations on one of your exhibits. Do you agree with them?

A. Yes, sir, I certainly do.

MR. KENDRICK: All right.

MR. STAMETS: Are there any other questions of the witness? He may be excused.

Anything further in this case?

We'll take the case under advisement.

(Hearing concluded.)

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REPORTER'S CERTIFICATE

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I, SALLY WALTON BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full. true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

1 do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6348

heard by me on Examiner

Oil Conservation Division

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ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

JERRY APODACA

NICK FRANKLIN MORETARY

October 25, 1978

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 87501 (506) 827-2434

Mr. Tom Kellahin Kellahin & Fox Attorneys at Law Re: CASE NO. 6349 ORDER NO. 7-5839
Post Office Box 1769 Santa Fe, New Mexico Applicant:
Consolidated Oil & Gas, Inc.
 Dear Sir:
Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case. Yours very truly,
Yours very truly, JOE D. RAMEY
Yours very truly, JOE D. RAMEY
Yours very truly, JOE D. RAMEY Director JDR/fd
JDR/fd Copy of order also sent to: Hobbs OCC ×
JDR/fd Copy of order also sent to:

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. 6349 Order No. R-5839

APPLICATION OF CONSOLIDATED OIL & GAS, INC. FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 11, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of October, 1978, 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, Consolidated Oil & Gas, Inc., is the owner and operator of the Hoyt Well No. 1, located in Unit H of Section 5, Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant seeks authority to commingle B. S. Mesa-Gallup and Basin-Dakota production within the wellbore of the above-described well.
- (4) That from the B. S. Mesa-Gallup zone, the subject well is capable of low marginal production only.
- (5) That from the Basin-Dakota zone, the subject well is capable of low marginal production only.

-2-Case No. 6349 Order No. R-5839

- (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.
- (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 Aztec 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, 53 percent and 39 percent of the commingled gas and oil production, respectively, should be allocated to the B. S. Mesa-Gallup zone, and 47 percent and 61 percent of the commingled gas and oil production, respectively, to the Basin-Dakota zone.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Consolidated Oil & Gas, Inc., is hereby authorized to commingle B. S. Mesa-Gallup and Basin-Dakota production within the wellbore of the Hoyt Well No. 1, located in Unit H of Section 5, Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.
- (2) That 53 percent and 39 percent of the commingled gas and oil production, respectively, shall be allocated to the B. S. Mesa-Gallup zone and 47 percent and 61 percent of the commingled gas and oil production, respectively, shall be allocated to the Basin-Dakota zone.
- (3) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently 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.

-3-Case No. 6349 Order No. R-5839

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY, Director

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PONCO T PLAT

LAST RECORD CHECK

OFFICE	PONCO	BY	84
COUNTY	2-21-78		\Box
STATE	29.73		
FEDERAL	9.70		

he information appearing on this Plat has been as melluly compiled frost official records. However, if the derivent the information is any way and is a find derivent the information is any way and is

T26N R4W NMPM
DAMCA

POMCO T PLAT

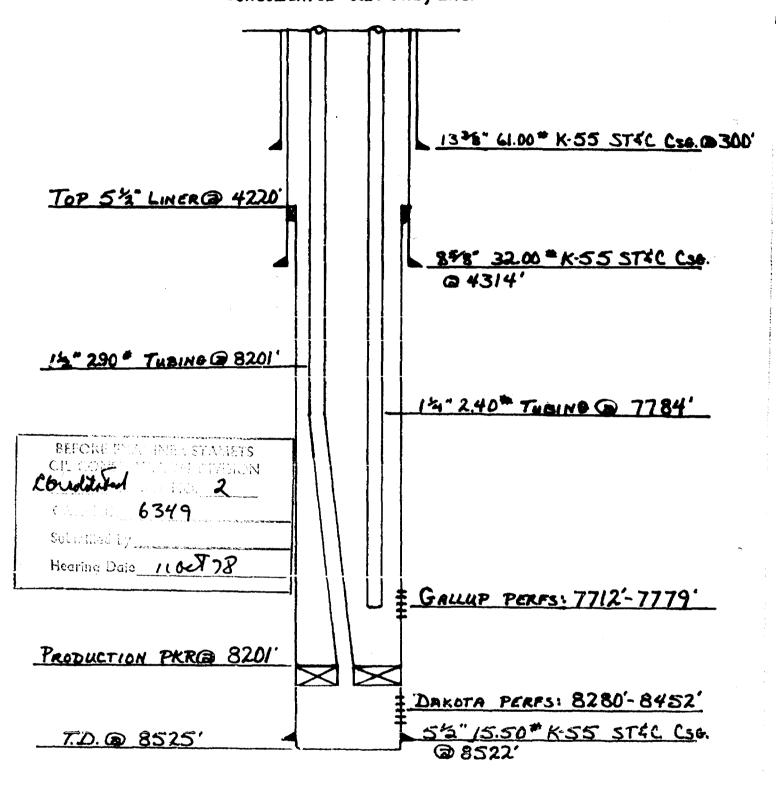
LAST RECORD CHECK

COUNTY	2-ZI-7A		
STATE	3-2-7A		
FEDERAL	3-9-76		
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	NOTE	3	

The information appearing an one Pat has been very translate compiled from afficial records. However we do not matter? the information in one way and confer occept any habitry for its complement our is focusely.

PRESENT COMPLETION SCHEMATIC HOST No.1-5

CONSOLIDATED UNL GAS, INC.



•	The second secon	Line Control Control Control			
Form 9-331 (May 1963)	UNITED STATES DEPARTMENT OF THE IN GEOLOGICAL SURV	ITERIOR Verse side	IN TRIPLICACES instructions on re-	Form approved Bureau 5. LEASE DESIGNATION OF CONTRACT 11	No. 42-R1424.
(Do not use thi	NDRY NOTICES AND REPO	RTS ON WELL		G. IF INDIAN, ALLOTTEE Jicarilla A	or talbe NAME
1. OIL GAS WELL 2. NAME OF OPERATOR	X OTHER			7. UNIT AGREEMENT NAMES OF LEASE NAMES	
	ced Oil & Gas, Inc.		80295	Hoyt 9. WELL NO.	
At surface	oln Street Lincoln Tol (Report location clearly and in accordance velow.) of N line, 850' W of E			1-5 10. FIELD AND FOOL, OR B.S. Mesa G Basin Dakot 11. SEC., T., R., M., OR BI SURVEY OR AREA	ALK. AND
14. PERMIT NO.	15. ELEVATIONS (Show w			Sec 5, T26N	13. STATE
16.	7299' RK			Rio Arriba	New Mexico
10.	Check Appropriate Box To Ind	icate Nature of Not		Other Uata	
Consolidation the Royalty a cation of	ABANDON* CHANGE PLANS Downhole Commingle OR COMPLETED OPERATIONS (Clearly state all if well is directionally drilled, give subsurf	pertinent details, and a ace locations and measuroposes to compare the be 52.7 % to	fore: Report results impletion or Recompletion or Recompletive pertinent dates, ired and true vertical downhole conformation in esame in the B.S.	ommingle prod ns in subject both zones. Mesa Gallup	on Well of starting any and zones perti- luction well. Allo- and
ing reser These res gas produ lative pr	rves from July 1,1978 serves have been deter uction. Oil will be a roduction figures of e up zone will be 101,50	to an aband mined by plot located bas ach zone as 0:1 and for	donment pro otting BHP, sed on a GO of July l the Dakota	essure of 50 /Z vs. cumula OR derived fr , 1978. The a zone will b	psig. tive com cumu- GOR for e 63,400:1.
APPRO	VED Subjection	est to a	Africa	by Comme 4 Copie	myling
SEP 22 CARLA. BA	1978 is C RRICK	empeet	a, fil	e 4 Copie	o form

SIGNED WITH LOW

TITLE Senior Prod. E

DECEIVED.

(This space for Federal or State office use)

*See Instructions on Reverse Side

SEP 2 1 1978

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

TABLE 1

Remaining reserves to 50 psig abandonment pressure as of July 1, 1978 (Mcf).

	Gallup	Dakota	Total
Ultimate	4,800,000	2,600,000	
Cum. 7-1-78	3,546,130	1,472,842	
Remaining reserves	1,242,870	1,127,158	2,380,028
% remaining reserves	52.7	47.3	100.

GOR Determination: Cumulative figures as of July 1, 1978.

	Gallup	Dakota
Cum. Gas Prod. (Mcf)	3,546,130	1,472,842
Cum Oil Prod. (STB)	34,937	23,244
GOR	101,500:1	63,400:1

Oil Determination: Based on GOR Figures from above.

Gallup: 101500 cu ft/ 8bl is 9.85 8bl/ MMCF

Dakota: 63400 cu ft/ Bbl is 15.77 Bbl/ MMCF

TOTALS

25.62 Bb1/ 2 MMCF

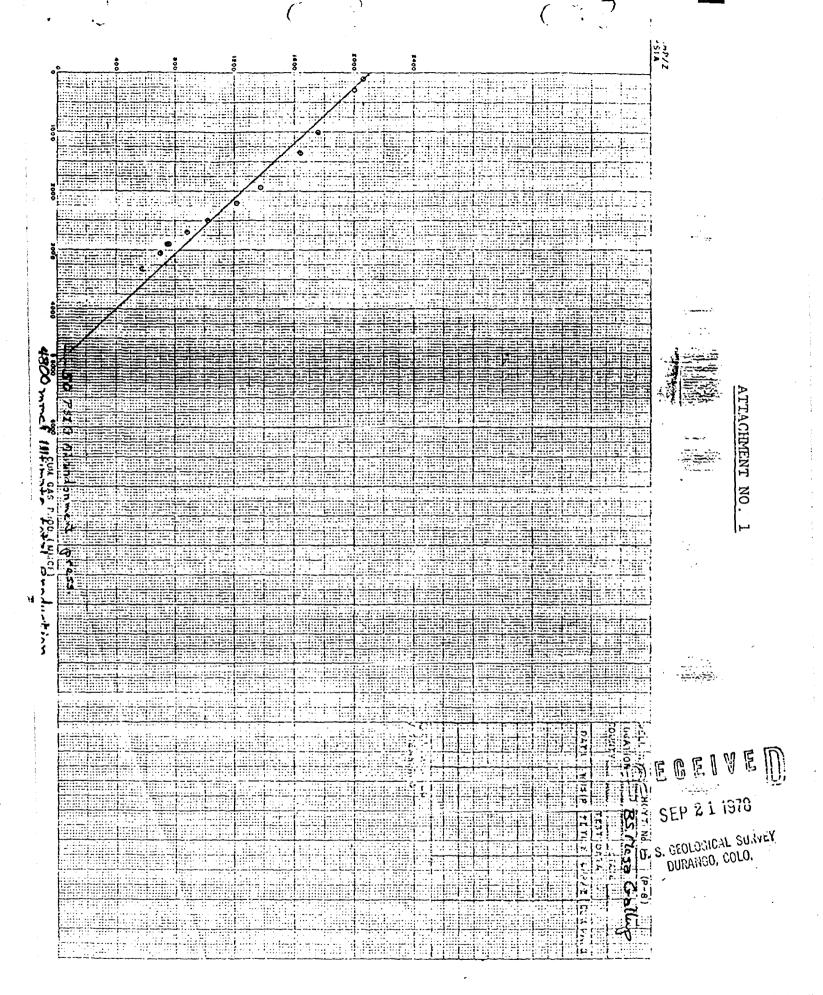
GALLUP 38.5% of oil

DAKOTA 61.5% of oil

Consolidated 4
6349
Necessary 2000 11 act 78

SEP 21 1978

U. S. GOLOGICAL SULVEY
LUTTANED, COLD.



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NEW MEXICO OIL CONTERVATION COMMISSION OF MORTHWOOD NEW MEXICO PACKED -LEAKAGE TEST

Certred

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Operator Con	isolidated Oi	1 & Cas	Inc.		ease <u>Hoyt</u>		
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or well. our	<u> </u>	LN /•		Type of Prod	. Method	et Prod.	Frees. Medicin
	Name of Reser		Pool	(Oil or Gas)	(Flow or	Art. Lift)	("cr. un dur.)
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Lower							
Completion	DK			Gas Til Sil	Flow		1 The
Janan Hour d	n+ o			OW SHUT-IN PR			Stabilized?
ompl Shut-	in 8-21-77		ength o	in 3 days	SI pre psig		(Yes-ar No)
Lower Hour, d		1.0	ength o	f	SI pre	83.	Stabilized?
Compl Shut-	in 8-21-77	ti	me shut	of in 3 days	psig		(788-02 10)
				FLOW TEST N	0.1		
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(hour, date)	since*	upper C	omp1.	Lower Compl.	Temp.	110	rurks
8-22-77	l day	411		560		1	
8-23-77	2 days	420		581			
8-24-77	3 days	425		595			
8-25-77	l day	428		262		Lower zone	flow
8-26-77	2 days	430		251			
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Production ra	te during tes	<u> </u> :t.	1.		l	<u> </u>	
				9bls. in_	Hr	s. Gr	av. 668
				hru (Orifice			
				ST SHUT-IN PR			
Hoper Hour, d			ength c		SI pre		Stabilized?
Compl Shut-			me shut		osig		(Yes or No) Stabilized?
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onipri ondo	2,11		no ottac	FLOW TEST N			1 (100 01 110)
Commenced at	(hour, date);	6%			Zone p		er or Lower):
Time	Lapsed time		Press		Prod. Zone		
(hour, date)	since **	Upper C	ompl.	Lower Compl.	Temp.	Re	marks
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Production ra	te during tes	st				*	and the second s
Oil:	BOPD ba	ased on_		Bbls. in	Hrs.	Grav.	GOS
Gas:		MCFPD;	Tested	thru (Orifice	or Meter):		
REMARKS:	the sales of the sales and the sales are		<u> </u>	·		and the state of t	
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knowledge.	era minar bing	3113 9 1 112 1	uavn im				
				Operat	or Consoli	dated Oil & O	as Inc.
						فنستنسب فسنست	
Approved:			19	_ •	1 0	1-1	
	il Conservat	on Com	19ission	- By	Teyl	Moc	as Inc.
	ii Conservat:	ton Comm	19_ ission		Production		re

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19_77_

Poim C122-A Revised 1-1-66

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Dasin			L			•	.1			
OMPANY					Twen -	AME AND HUMBER				73806
	lated Oil &	Gas C	ompany		4	#1 (DK)		ASING PIPELING		
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5.500	4.95		85	22	1	.990	1	.610	-	8280
⁸²⁸⁰	** 8452		EVAINE	WELL PROD	TUBING	XX	<u> </u>	722		5978
^{10м} Мау 19	DATE OF FL Yo		27		1	ne 3, 1977		110		
nay 19		riay		DATA A		SURES IN PSIA				
Flowing Craing Pressure (OWt)	(b) Flowing Yubin Pressure (DW)			(d) Flow		(e) Heter Error (Item c - It		(f) Friction L (a-c) or ((g) Average Reter Pressure (Integr.
	269		268	26	5	3		1		267
n) Corrected Heter Pressure (g + e)	(i) Avg. Welihead Press. Pt = (h+f)		t-in Cusing saure (DWt)	(k) Shut-ir Pressu	Tubing are (DV1)	(1) P _c = ldgher of (j) or (k)	value		sure %F	(n) Separator or De- hydrator Pr. (Dift) for critical flow only
270	271			596	5	596		Pa =50 298	<i>**</i> **c	
			FLOW RAT	E CORRE	CTION (M	ETER ERROR)		<u> </u>		
ntegrated Volume -	MCF/D Que	tient of ·	liem c			√ Item c	-	Correct	ed Volu	me
266		1.01	-			1.0056		Q = 2	68	MCF/D
			WORKI	G PRESSI	JRE CAL	CULATION				
(1-e ⁻⁸) ·	(F _e Q _m) ² (1000)		R ² (1-e ^{-u}) (F		99	P. 2	P.	,2 = P,2 + R2		$P_{\mathbf{w}} = \sqrt{P_{\mathbf{w}}^2}$
.353	19459		6869		1	3441	1	30310		283
			DELIV	VERABILI"	TY CALC	ULATION				·
$y = \sqrt{\frac{P_{c}^{2} - P_{w}^{2}}{P_{c}^{2} - P_{w}^{2}}}$	268		2664 2749		-)= /, (9691)	n	3/6/]= —	262 HCF/D
EMARKS:			[[<u>/</u>				<u></u>	
L						• -		•		
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	SURVIAR	<u>Y</u>								
įtem n	270 596		_ Pela		Company	11/2	idate	ed Oil &	Gas	Inc.
P _c Q	268		_ Psin _ NCF/D		B: Title	17	Jour 1	luction	DA	Forema
Pw	283 298	_ `	- Psiu	Wit	nessed B					
P _d	262		_ P#In _ MCF/D		Company	·		 -		

BJB/ms

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 77

Dorm C122-A

Company Consolidated Oil & Gas WELL HAME AND NUMBER Hoyt #1 Gl UNIT LETTER H 5 26 4 PURCHASING PIPELINE Northwest Pipeline Corp. EASING O.D INCHES CASING ID - INCHES SET AT DEPTH - PEEY TUBING O.D INCHES TOP-TUBING PERF 5.500 4.950 8522 1.990 1.610 7772 EAS PAY ZONE WELL PRODUCING THRU CAS GRAVITY CRAVITY R LEBETH PROW 7712 TO 7779 CASING TUBING XX .712 5534	FROM NOV. 8	DATE OF FLOW TEST	v.16	June 3, 197		
Consolidated Oil & Gas UNIT LETTER H 5 26 4 Northwest Pipeline Corp. EASING O.D INCHES CASING ID - INCHES SET AT DEPTH - PEET TUBING O.D INCHES TUBING ID - INCHES TOP-TUBING PERF		7779	CASINE	TUBING XX	.712	1
73805 COMPANY Consolidated Oil & Gas Hoyt #1 G1 UNIT LETTER SECTION TOWNSHIP RANGE PURCHASING PIPELINE		1	1	1	1	7772
73805 COMPANY Consolidated Oil & Gas Hoyt #1 G1	H	SECTION 5	1	HANGE		peline Corp.
73805	Consolidate	ed Oil & Gas		1		
B.S. Mesa n= .75 Gallup Rio Arriba			-		73805	-
	B.S. Mesa	n= .75	Gallup		Rio Arri	ba

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)		(d) Flow Churt Static Rending	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Heter Pressure (Integr.)
358	285	283	282	1	2	268
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. P = (h+f)	(j) Shut-in Cesing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWI)	(i) P _c = higher value of (j) or (k)	Pd = 80 %P	(n) Separator or De- hydrator Pr. (DWt) for critical flow only
269	271	44]	441	441	353	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volum	ne MCF/D	Quotient of Item c	√ Item c Item d	Corrected Volume	
334		1,0036	1.0018	Q = 335 MC	F/D

WORKING PRESSURE CALCULATION

(1 -e ⁸)	(F _c Q _m) ² (1000)	$R^2 = (1 - e^{-8}) (F_c Q_m)^2 (1000)$	Pt ²	$P_w^2 = P_t^2 + R^2$	$P_{\mathbf{w}} = \sqrt{P_{\mathbf{w}}^2}$
.331	30405	J 0064 [.]	73441	83505	289

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_d^2} \right]^n = 335$	69872	/ (.6296)	.7068	237wcF/D
	110976				

REMARKS:

SUMMARY

Item h	269	Pala
P	441	Paia
0	335	MCF/D
P	289	Pain
P	353	Pala
	237	MCF/D

Company	Consolidated Oil	8 Gas	•
Ву	Vern Mo	ork	
Title	Production.	-fores	nan
Witnessed By			
Company			

Dockets Nos. 34-78 and 35-78 are tentatively set for hearing on October 25 and November 8, 1978. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 11, 1978

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Evaminer, or Daniel S. Nutter, Alternate Examiner:

CASE 6338: Application of Charles C. Loveless for an unorthodox well location, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 660 feet from the South line and 1980 feet from the East line of Section 23, Township 17

South, Range 26 Fast, Kennedy Farms Field, Eddy County, New Mexico, the E/2 of said Section 23 to be dedicated to the well.

CASE 6040: (Reopened and Readvertised)

In the matter of Case 6040 being reopened pursuant to the provisions of Order No. R-5552 which order created the North Teague-Devonian Pool, Lea County, New Mexico, with a special gas-oil ratio limitation of 4000 to 1. All interested parties may appear and show cause why the limiting gas-oil ratio for said pool should not revert to 2000 to 1.

CASE 6339: 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 Pennsylvanian formation underlying the S/2 of Section 22, Township 23 South, Range 28 East, Eddy County, New Mexico, 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6321: (Continued and Readvertised)

Application of Texas 0il & Gas Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Shugart State Com. Well No. 1 to be drilled 714 feet from the South line and 2062 feet from the West line of Section 16, Township 18 South, Range 31 East, Eddy County, New Mexico, the W/2 of said Section 16 to be dedicated to the well.

CASE 6320: (Continued and Readvertised)

Application of Texas Oil & Gas Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Coquina Federal Com Well No. 1 to be drilled 710 feet from the North line and 2330 feet from the West line of Section 32, Township 18 South, Range 27 East, Eddy County, New Mexico, the W/2 of said Section 32 to be dedicated to the well.

- CASE 6340: Application of Supron Energy 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 Shelby Federal Well No. 1 located in the NE/4 of Section 13, Township 22 South, Range 24 East, Eddy County, New Mexico.
- CASE 6341: Application of Supron Energy Corporation for dual completions and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the dual completion of its Jicarilla A Well No. 8 located in the NW/4 of Section 23; its Jicarilla E Well No. 7 located in the SE/4 of Section 15; and its Jicarilla E Well No. 8 located in the NW/4 of Section 15, all in Township 26 North, Range 4 West, Rio Arriba County, New Mexico, to produce gas from the Nesaverde formation through a separate string of tubing and to commingle Gallup and Dakota production in the wellbores of said wells.
- CASE 6342: Application of Supron Energy Corporation for a dual completion and downhole commingling. Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Jicarilla J Well No. 10 located in the SE/4 of Section 26, Township 26 North, Range 5 West, Rio Arriba County, New Mexico, to produce gas from the Picturel Cliffs formation through a separate string of tubing and to commingle Tocito and Dakota production in the wellbore of said well.
- CASE 6343: Application of Supron Energy Corporation for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Jicarilla H Well No. 8 located in the SE/4 of Section 11, Township 26 North, Range 4 West, Rio Arriba County, New Mexico, to produce gas from the Pictured Cliffs formation through a separate string of tubing and to commingle Gallup and Dakota production in the wellbore of said well.

- CASE 6344: Application of Supron Energy Corporation for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Jicarilla F Well No. 1 located in the SW/4 of Section 27, Township 26 North, Range 4 West, Rio Arriba County, New Mexico, to produce gas from the Pictured Cliffs formation through a separate string of tubing and to commingle Mesaverde and Dakota production in the wellbore of said well.
- Application of Supron Energy Corporation for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Gallup and
 Dakota production in the wellbore of its Jicarilla H Well No. 7 located in the SW/4 of Section 19,
 Township 26 North, Range 4 West, Rio Arriba County, New Mexico.
- CASE 6346: Application of Supron Energy Corporation for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause; seeks approval for the downhole commingling of Pictured Cliffs and Chacra production in the wellbore of its Jicarilla K Well No. 14 located in the SE/4 of Section 11, Township 25 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 6347:
 Application of Supron Energy Corporation for downhole commingling, Rio Arriba County, New Mexico.
 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Chacra and
 Dakota production in the wellbore of its Jicarilla K Well No. 17 located in the SW/4 of Section 12,
 Township 25 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 6348: Application of Supron Energy Corporation for downhole commingling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Mesaverde and Dakota production in the wellbore of its Starr Well No. 3 located in the NE/4 of Section 5, Township 26 North, Range 8 West, San Juan County, New Mexico.
- CASE 6349: Application of Consolidated Oil & Gas, Inc. for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of B.S. MesaGallup and Basin-Dakota production in the wellbore of its Hoyt Well No. 1-5 located in Unit H of
 Section 5, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.
 - CASE 6350: Application of Petro-Lewis Corporation for an unorthodox well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of the unorthodox location in the Mesaverde formation for its Florance Well No. 7 located 2028 feet from the North line and 1040 feet from the West line of Section 4, Township 25 North, Range 3 West, Tapacito Field, Rio Arriba County, New Mexico, the NW/4 of said Section 4 to be dedicated to the well.
 - CASE 6351: Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, sceks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 16, Township 19 South, Range 29 East, Eddy County,

 New Mexico, 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
 - CASE 6352: Application of Southland Royalty Company for three dual completions, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Decker Well No.

 2A located in Unit I of Section 26, Township 32 North, Range 12 West, and its Grenier "A" Well No.

 1A in Unit C of Section 26, Township 30 North, Range 10 West, to produce gas from the Blanco
 Pictured Cliffs and the Blanco Mesaverde pools and its Patterson "B" Com Well No. 1R in Unit C of

 Section 2, Township 31 North, Range 12 West, to produce gas from the Aztec-Pictured Cliffs and Blanco
 Mesaverde pools, all in San Juan County, New Mexico, with separation of the zones in each of the
 above wells to be achieved by means of a polished bore receptacle and mandrel.
 - Application of Union Texas Petroleum for two unorthodox well locations, Roosevelt County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox locations of its Milnesand
 Unit Well No. 241 to be drilled 2630 feet from the North line and 100 feet from the East line of
 Section 24, Township 8 South, Range 34 East, and its Milnesand Unit Well No. 1901 to be drilled 1310
 feet from the North and West lines of Section 19, Township 8 South, Range 35 East, Milnesand San
 Andres Pool, Roosevelt County, New Mexico.
 - CASE 6354: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating and extending vertical and horizontal limits of certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico:
 - (a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Bone Springs production and designated as the Ross Draw-Bone Springs Gas Pool. The discovery well is D. B. Baxter Ross Draw Unit Well No. 5 located in Unit K of Section 27, Township 26 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 30 EAST, NMPM Section 27: SW/4

(b) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Atoka production and designated as the South Sand Ranch-Atoka Gas Pool. The discovery well is Depec; Inc. Reall Federal Well No. 1 located in Unit G of Section 17, Township 11 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 11 SOUTH, RANGE 30 EAST, NMPM Section 17: E/2

(c) EXTEND the Angell Ranch-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 27 EAST, NMPM Section 25: All Section 36: N/2

TOWNSHIP 20 SOUTH, RANGE 27 EAST, NMPM Section 1: E/2

(d) EXTEND the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM Section 16: N/2 Section 17: NE/4

(e) EXTEND the Buckeye-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM Section 3: W/2

(f) EXTEND the East Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM Section 5: E/2

(g) EXTEND the East Chisum-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 28 EAST, NMPM Section 9: NW/4 SE/4 Section 10: W/2 SW/4 Section 21: NE/4 NW/4

- (h) EXTEND the vertical limits of the Comanche Stateline-Yates Pool in Lea County, New Mexico, to include the Tansill formation and redesignate said Comanche Stateline-Yates Pool as the Comanche Stateline Tansill-Yates Pool.
- (i) EXTEND the Corbin-Queen Pool in Les County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM Section 35: NW/4

(j) EXTEND the Crooked Creek-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM Section 16: N/2

(k) EXTEND the South Empire-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 25: S/2

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM Section 30: N/2

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM Section 13: N/2

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NNPM Section 7: S/2 Section 18: All

(1) EXTEND the West Four Mile Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 26 FAST, NMPM Section 6: S/2

(m) EXTEND the Gladiola-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 38 FAST, NMPM Section 5: NW/4

(n) EXTEND the Herradura Bend-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM Section 31: W/2 E/2 Section 32: NE/4 NE/4

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM Section 5: W/2 NW/4

(o) EXTEND the Hume-Norrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM Section 5: S/2 Section 8: E/2

(p) EXTEND the Indian Flats-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM Section 35: S/2 SW/4

TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2 NW/4

(q) EXTEND the South Kemnitz-Upper Wolfcamp Fool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM Section 33: SW/4

(r) EXTEND the Kennedy Farms-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 26 EAST, NMPM Section 33: E/2

(s) EXTEND the East Lusk-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM Section 16: NE/4

(t) EXTEND the Many Gates-Morrow Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 30 EAST, NMPM Section 31: All

(u) EXTEND the North Mescalero-Cisco Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 32 EAST, NMPM Section 11: NW/4

(v) EXTEND the Millman-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 18: All

(w) EXTEND the Monument-Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 21: NE/4

(x) EXTEND the South Peterson-Pusselman Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 5 SOUTH, RANGE 33 EAST, NMPM Section 31: E/2

(y) EXTEND the Quail Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 16: S/2

(z) EXTEND the Red Lake-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM Section 19: E/2 Section 20: W/2

(aa) EXTEND the Sand Dunes-Cherry Canyon Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM Section 23: E/2 SE/4 and NW/4 SE/4

(bb) EXTEND the Sand Ranch-Atoka Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 29 EAST, NMPM Section 23: N/2

(cc) EXTEND the North Shugart-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM Section 21: W/2

(dd) EXTEND the North Shugart-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM Section 21: W/2

(ee) EXTEND the Tomahawk-San Andres Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 32 FAST, NMPM Section 30: NE/4 Section 31: SE/4 Section 32: NW/4

(ff) EXTEND the Tubb Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 6: NW/4

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM Section 31: SW/4

(gg) EXTEND the North Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSKIP 18 SOUTH, RANGE 28 EAST, NMPM Section 25: W/2

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM Section 29: N/2 Section 31: S/2

(hh) EXTEND the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 28 EAST, NMPM Section 25: S/2 SW/4

TOINISHIP 9 SOUTH, RANGE 28 FAST, NMPM
Section 1: Su/A NE/A, NU/A SE/A, SW/A NW/A and NW/A SW/A

(11) EXTEND the Vacuum Grayburg-San Andres Pool in Lea County, New Mexico, to Include therein:

TOWNSHIP 17 SOUTH, RANGE 36 EAST, NMPM Section 19: NW/4

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 18, 1978

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for November, 1978, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for November, 1978, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.



Consolidated Oil & Gas, Inc.

1860 LINCOLN STREET DENVER, COLORADO 80295 (303) 861-5252 Si P 31 1975

September 18, 1978

Case 6349

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

J. D. Ramey, Sec'y.-Director Attention:

Re: Application to Commingle

Hoyt 1-5

Section 5, T26N, R4W

Rio Arriba County, New Mexico

Dear Mr. Ramey:

Consolidated Oil & Gas, Inc., hereby requests a hearing to consider the above referenced application to commingle the B. S. Mesa Gallup and Basin Dakota zones in this well. The well is currently dually completed in these two zones as granted by order No. MC-1468.

Downhole communications of the Gallup and Dakota zones was discovered earlier in the year, apparently resulting from a hole or holes in the Dakota tubing string. Therefore, corrective action is necessitated for compliance with Rule 112-A and the above referenced order authorizing this dual completion.

Past operations to remedy a communications problem in a well with a lengthy production history has found the long string tubing sanded in above the production packer due to production of frac sand from the upper completion. Therefore, retrieval of the long string tubing and recompletion of a dual well in compliance with the provisions of Rule 112-A is often a lengthy and costly procedure and economically unjustified in the latter stage of a well's production life. There is no evidence to suspect this well to be different in this aspect, since both zones were sand-frac'd during initial completion operations.

Oil Conservation Commission September 18, 1978 Page 2

Consolidated 0il & Gas, Inc., thus proposes to downhole commingle the Dakota and Gallup zones by running a freepoint determination on the Dakota production tubing, cutting the tubing above the freepoint and recompleting the well with a single string of production tubing per the attached completion schematic. Production from both zones will then be produced through this single tubing string.

The N/2 of Section 5, Township 26 North, Range 4 West, on which this well is located, is covered by our Jicarilla Apache Tribal Contract No. 119. In addition, the working interests are the same for both the Gallup and Dakota zones. Therefore, the correlative rights of both interests are protected regardless of how the production is divided.

Due to several factors i.e., allowables, changing demand and changing line pressures, production performance is disrupted and invalidates the use of production decline curves for reserve determination. Therefore, Consolidated proposes to use one of the more acceptable engineering methods of assigning reserves in this well; that is, the plotting of a well's static bottomhole pressure, corrected for compressibility versus the well's cumulative production. Plotting of these points should result in a straight line on linear coordinate paper if the reservoir is allowed to build to its absolute static condition and the proper compressibility (Z) factor is used. This we have done for both the Gallup and Dakota zones in the Hoyt No. 1 using the yearly wellhead shut-in pressures reported to the New Mexico Oil Conservation Commission, corrected for compressibility at bottom hole conditions.

As can be seen on Attachments No. 1 and No. 2, projecting both zones to an economic limit of 50 psig abandonment pressure yields projected ultimate production of 4800 Mmcf for the Gallup and 2600 Mmcf for the Dakota, or 52.7% and 47.3% respectively, of the total remaining reserves. (See table No. 1)

The oil from each zone we propose to allocate based on a GOR derived from cumulative oil and gas production figures as of 7-1-78, (See Table No. 1). Based on these figures, we suggest a GOR of 101,500:1 for the Gallup and 63,400:1 for the Dakota. Since there is no means of accurately measuring oil production in the field, we must rely on gauge figures when the oil is trucked from the location. Due to costs, trucking is necessarily scheduled to coincide with full tanks rather than the end of a month's producing period; therefore, GOR's based on a month's or even a year's production do not give a truly representative GOR. Thus, it is our conclusion that the GOR we suggest is the most nearly accurate and is therefore adequate for allocation of produced oil.

Oil Conservation Commission September 18, 1978 Page 3

Assuming the production rates for the Gallup and Dakota zones could be restored to their 1977 daily average of 180 McfD and 220 McfD respectively, repair of the tubing and recompletion of the well as a dual could be paid out in a reasonable length of time i.e., assuming no problems are encountered in the workover. Consolidated, however, feels the workover expense to correct the communications problem is an unnecessary allocation of resources for both Consolidated and the public. We base this position on the fact that both royalty and working interest owners will be protected and production from both zones can be adequately allocated. We therefore request approval to downhole commingle production from the Gallup and Dakota zones in our Hoyt No. 1-5 well and allocate all future production 52.7% to the Gallup with a GOR of 101,500:1 and 47.3% to the Dakota with a COR of 63,400:1 based on the previously described projection.

Very truly yours,

CONSOLIDATED OLL & GAS, INC.

C. M. Parham

Senior Production Engineer

CMP:sm Enclosures

Form 9-331 UNITED STATES SUBMIT IN TRIPLICATES (Other Instructions on re-	Form approved Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	Contract 119
	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	Jicarilla Apache
OIL GAS X OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
Consolidated Oil & Gas, Inc. 3. ADDRESS OF OPERATOR 80205	Hoyt 9. WELL NO.
00273	1-5
1860 Lincoln Street, Lincoln Tower Bldg., Denver CO 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1720' S of N line, 850' W of E line	B.S. Mesa Gallup/ Basin Dakota
1/20 5 of Willie, 650 W of B line	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
•	Sec 5, T26N, R4W, NMPM
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
7299' RKB	Rio Arriba New_Mexico
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	
NOTICE OF INTENTION TO: SUBSEQ	UBNT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* SHOOTING OR ACIDIZING (Other) (Other) (Note: Report results Completion or Recomp	REPAIRING WELL ALTERING CABING ABANDONMENT* s of multiple completion on Well letion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OFERATIONS (Clearly state all pertinent details, and give pertinent dates proposed work. If well is directionally drilled give subarface locations and measured and true vertice nent to this work.)* Consolidated Oil & Gas, Inc. proposes to downhole of from the B.S. Mesa Gallup and Basin Dakota formation Royalty and working interest owners are the same in cation of gas production will be 52.7 % to the B.S. 47.3 % to the Basin Dakota based on an engineering reserves from July 1,1978 to an abandonment profit These reserves have been determined by plotting BHP gas production. Oil will be allocated based on a Glative production figures of each zone as of July 1 the Gallup zone will be 101,500:1 and for the Dakot	ommingle production ns in subject well. both zones. Allo- Mesa Gallup and g estimate of remain- essure of 50 psig. /Z vs. cumulative OR derived from cumu- , 1978. The GOR for
18. I hereby crists that the foregoing is true and correct SIGNED TITLE Senior Prod. Engr. (This space for Federal or State office use)	DATE September 18, 19

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

G.P.O.: 1973-780-622 /VIII-148

TABLE 1

Remaining reserves to 50 psig abandonment pressure as of July 1, 1978 (Mcf).

	Gallup	Dakota	Total
Ultimate	4,800,000	2,600,000	
Cum. 7-1-78	3,546,130	1,472,842	
Remaining reserves	1,242,870	1,127,158	2,380,028
% remaining reserves	52.7	47.3	100,
GOR Determination:	Cumulative fi	gures as of J	July 1, 1978.
-	Gallup	Dakota	-

1,472,842

23,244

63,400:1

3,546,130

34,937

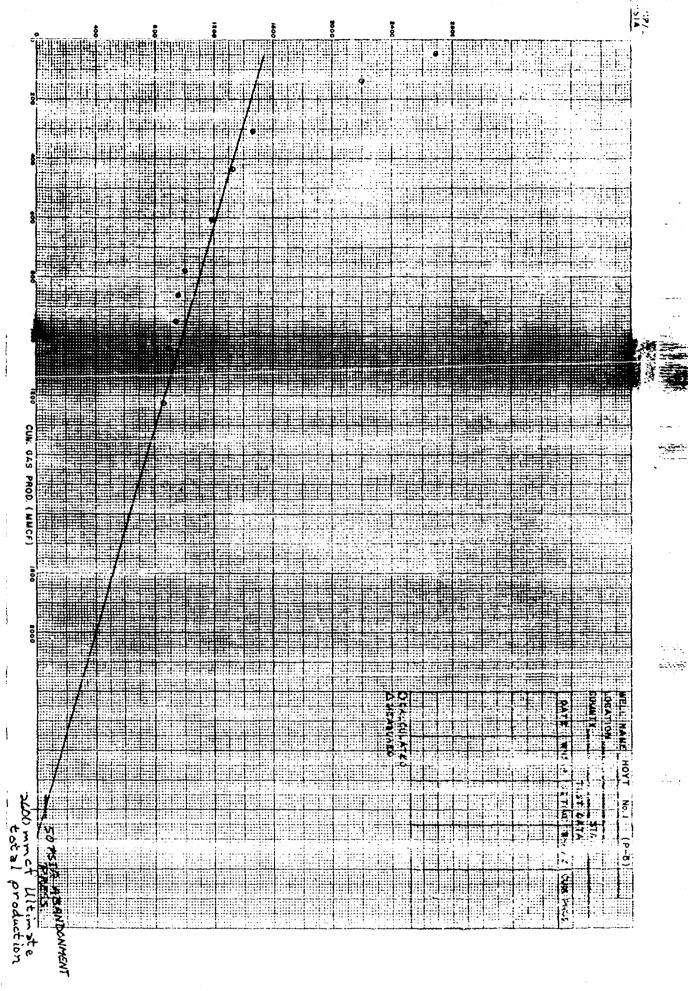
101,500:1

Cum. Gas Prod. (Mcf)

Cum Oil Prod. (STB)

GOR

ATTACHMENT NO. 1



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. 6349 Order No. R-5839 APPLICATION OF CONSOLIDATED OIL & GAS, INC. FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO. ORDER OF THE DIVISION BY THE DIVISION: This cause came on for hearing at 9 a.m. on October 11 19 78 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets NOW, on this day of October , 19 78 , 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, Consolidated Oil & Gas, Inc., is the owner and operator of the Hoyt Well No. 1# located in Unit H of Section 5 , Township 26 North Range 4 West , NMPM, Rio Arriba County, New Mexico. (3) That the applicant seeks authority to commingle Basin-Dakota production and Basin-Dakota within the wellbore of the above-described well.



j	(4) That from the B. S. Mcsa-Gallup zone, the
	subject well is capable of low marginal production only.
	(5) That from the Basin-Dakota 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.
	(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
	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, 5 special and
9	percent of the commingled production should be allocated
	to the B.S. Mesa-Gallup zone, and 47 percent of percent of
	the commingledproduction to the Basin-Dakota
	zone.
	IT IS THEREFORE ORDERED:
	(1) That the applicant, Consolidated Oil & Gas, Inc. , is
	hereby authorized to commingle B.S. Mesa-Gallup and
	Basin-Dakota production within the wellbore of
	the Hoyt Well No. 12 , located in Unit H of
	Section 5 , Township 26 North , Range 4 West
	NMPM, Rio Arriba County, New Mexico.
	(2) That the applicant shall consult with the Supervisor
	of the Aztec District Office of the Division and
	determine an allocation formula for the allocation of production
	to each zone in each of the subject wells.
	11

- percent of the commingled gesended production shall be allocated to the B. S. Mesa-Gallup

 zone and 47 percent and by percent of the commingled percent of the commingled production shall be allocated to the Basin-Dakota zone.
- notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.
- (7) 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.

Exhibits 1 through 3 Complete Set