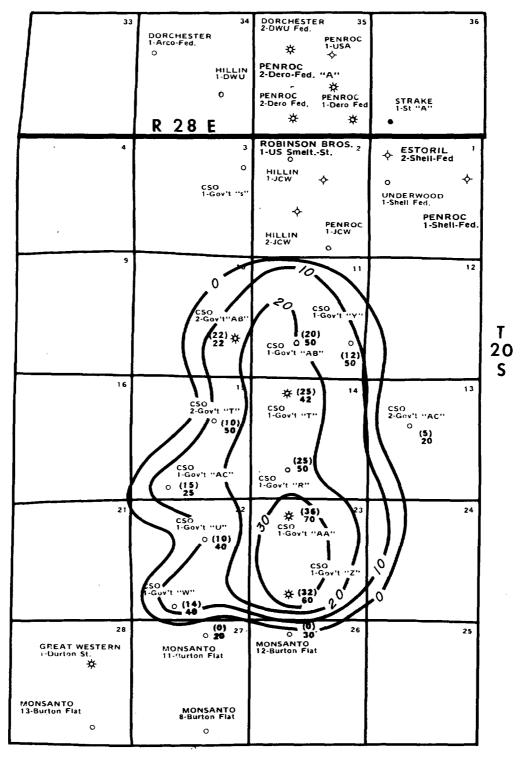
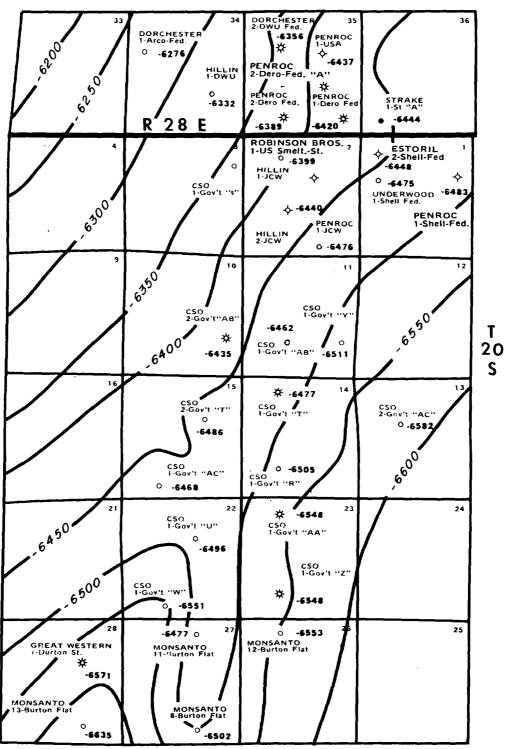


		
NORTH BURTON	FLAT WOLFCAMP	
BEFORE EXAMINER STAMETS		Geol. By: R. Andersen
OIL CONSERVATION COMMISSION STATEMENTS		C.I. 20'
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		(32) Feet of Porosity 60 Gross Thickness
CASE NO. 5397		
Submitted by Anduson		SCALE :
Hearing Date 4 Feb7L		MILE



BEFORE EXPERIENCE NORTH TEURION	FLAT WOLFCAMP
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CASE NO. 5397	
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Geol. By: R. Andersen
C.I. 10'
Example;
(32) Feet of Porosity
60 Gross Thickness
SCALE:



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Geol. By: R. Andersen
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Example;
(32) Feet of Porosity
60 Gross Thickness
SCALE:

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TABLE 6" RESERVOIR FLUID ANALYSIS SAMP' T COMPOSITIONS

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ABLE 2 RESERVOIR FLUID ANALYSIS SAMPLE COMPOSITIONS

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ABLE 2 RESERVOIR FLUID ANALYSIS SAMPLE COMPOSITIONS

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CASE NO. 5397

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TABLE 6T2

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EXHIBIT ___

SLE 4

RECOMBINED RESERVOIR FLUID REHAVIOR AT 152°F

(RESERVOIR TEMP 'ATURE) GOR = 4500

GOVERNMENT T-1

LULI COUNTY, NEW MEXICO

Pressur , psig	Volume ⊋ercent Liquid
4670 (Dew Point Tressure)	•
465C	0. 3
45 60	13.8
4470	22.1
4340	24.4
4220	28.8
₫025	29 9
2780	31.7
3 570	3 3 E
3370	34.0
3170	32.8
2910	31.0
2670	29.1
2320	25.2
1880	20.1
1440	16.2
1240	11.6
1030	9.1
860	7.3
730	5.9
670	5.2

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Clivies EXHIBIT NO. 14
CASE NO. 5 397
Submitted by Katron
Hearing Date 4 Feb76

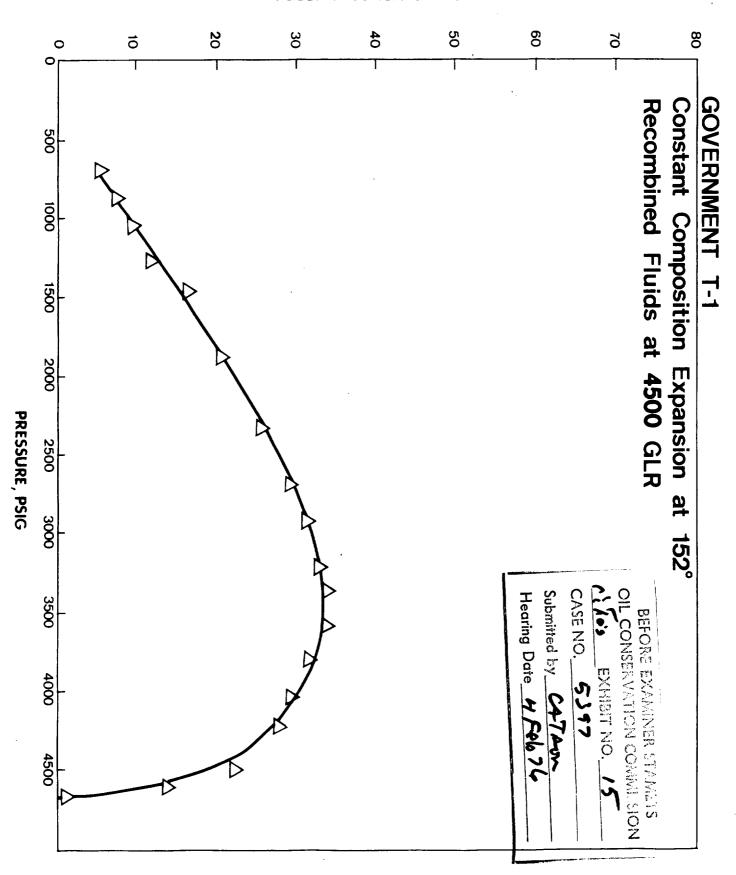


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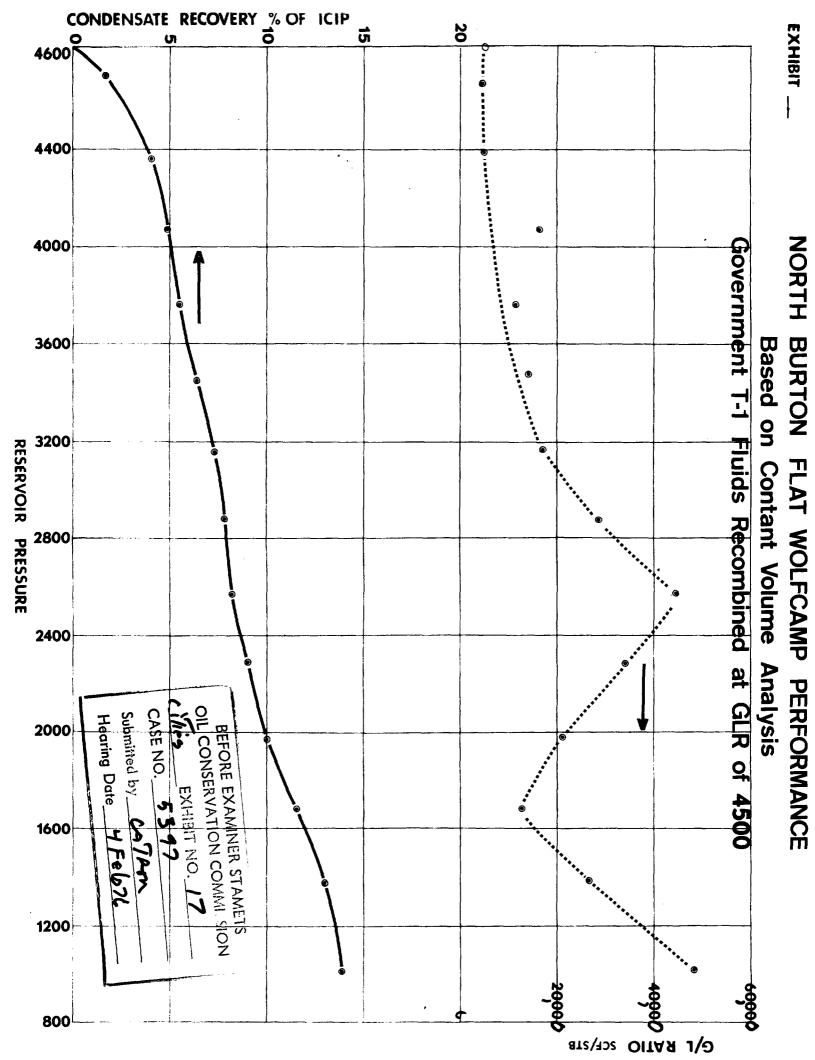
ANALYSIS OF GASES REMOVED FROM WINDOWED CELL
CONSTANT VOLUME DEPLETION DATA, 152°F
(4676-1000 ps.19)
RECOMBINED RESERVOIK (LUIDS, GOR = 456, GOVERNMENT T-1, EDDY COUNTY, NEW MEXICO

LL 7
VED FROM WINDOWED CELL
PLETION DATA, 152°F
On p.19

Hearing Date 4 Feb76	Submitted by	CASE NO.	Ch Tie's	OIL CONSERVATIO
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(WEST PARKWAY-STRAWN GAS AND WEST PARKWAY-ATOKA GAS POOLS - Cont'd.)

EDDY COUNTY, NEW MEXICO TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM Section 28: N/2

(2) That, effective October 1, 1973, Special Rules and Regulations for the West Parkway-Strawn Gas Pool and the West Parkway-Atoka Gas Pool, Eddy County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE WEST PARKWAY-STRAWN GAS POOL AND WEST PARKWAY-ATOKA GAS POOL

- RULE 1. Each well completed or recompleted in the West Parkway-Strawn Gas Pool and/or West Parkway-Atoka Gas Pool or in the Strawn and Atoka formations within one mile thereof, and not nearer to or within the limits of another designated Strawn or Atoka pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2 (a) Each gas well shall be located on a standard unit containing 320 acres, more or less, comprising any two contiguous quarter sections of a single governmental section, being a legal subdivision of the United States Public Land Surveys.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard out; and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:
- (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a standard proration unit for the well under the applicable provisions of Rule 2 above and contains less acreage than a standard unit.
- (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the standard proration unit for the well in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
- (d) In lieu of paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4 Each well shall be located no nearer than 660 let to the nearest side boundary of the tract nor nearer than 1980 feet to the nearest end boundary of the tract.
- RULE 5. A gas well in the West Parkway-Strawn Gas Pool shall be permitted to produce no more than 1500 MCF of gas per day during the effective period of these pool rules and a gas well in the West Parkway-Atoka Gas Pool shall be permitted to produce no more than 2000 MCF of gas per day during the effective period of the rules.

- RULE 6. The operator of each newly completed well shall cause a gas-liquid ratio test to be taken on the well upon recovery of all load oil from the well. Any well which is shut in shall be exempted from the gas-liquid ratio test requirement so long as it remains shut in. The initial gas-liquid ratio test shall be taken in the manner prescribed by Rule 7.
- RULE 7. Gas-liquid ratio tests shall be taken on all wells during the months of March and September of each year. The initial gas-liquid ratio test shall suffice as the first semi-annual test. Tests shall be 24-hour tests, being the final 24 hours of a 72-hour period during which the well shall be produced at a constant normal rate of production. Results of such tests shall be filed on Commission Form C-115 on or before the 10th day of the following month. At least 72 hours prior to commencement of any such gas-liquid ratio tests, each operator shall file with the appropriate district office of the Commission a test schedule for its wells specifying the time each of its wells is to be tested. Copies of the test schedule shall also be furnished to all offset operators. The Commission District Supervisor may grant exceptions to the above test requirements where it is demonstrated that wells produce no liquids.

Special tests shall also be taken at the request of the Secretary-Director and may also be taken at the option of the operator. Such special tests shall be taken in accordance with the procedures outlined hereinabove, including notification to the Commission and offset operators.

- RULE 8. An initial shut-in pressure test shall be taken on each gas well and shall be reported to the Commission on Form C-125.
- RULE 9. Any well completed after the effective date of these rules shall receive an allowable only upon receipt by the appropriate Commission district office of Commission Forms. C-104 and C-116, properly executed. The District Supervisor of the Commission's district office is hereby authorized to assign a temporary gas allowable to wells connected to a gas transportation facility during the recovery of load oil, which allowable shall not exceed the amounts set forth in Rule 5 of these rules.
- RULE 10. The initial balancing date shall be 7 o'clock a.m. April the first, 1974. Subsequently, the date 7:00 a.m. April the first of each year shall be known as the balancing date, and the twelve months following this date shall be known as the gas proration period.
- RULE 11. Any gas well which has an underproduced status as of the end of a gas proration period shall be allowed to carry such underproduction forward into the next gas proration period and may produce such underproduction in addition to the allowable assigned during such succeeding period. Any allowable carried forward into a gas proration period and remaining unproduced at the end of such gas proration period shall be cancelled.
- RULE 12. Production during any one month of a gas proration period in excess of the allowable assigned to a well for such month shall be applied against the underproduction carried into such period in determining the amount of allowable, if any, to be cancelled.

WEST PARKWAY-STRAWN GAS AND WEST PARKWAY-ATOKA GAS POOLS - Cont'd.)

RULE 13. Any well which has an overproduced status as of ie end of a gas proration period shall carry such overproduction broad into the next gas proration period, provided that such ver production shall be compensated for during such succeeding eriod. Any well which has not compensated for the overprouction carried into a gas proration period by the end of such roration period shall be shut in until such overproduction is ompensated for. If, at any time, a well is overproduced an mount equalling three times its current monthly allowable, it hall be shut in during that month and each succeeding month ntil the well is overproduced less than three times its current monthly allowable.

RULE 14. The allowable assigned to a well during any one month of a gas proration period in excess of the production for he same month shall be applied against the overproduction arried into such period in determining the amount of overgroduction, if any, which has not been compensated for.

RULE 15. The Commission may allow overproduction to be compensated for at a lesser rate than would be the case if he well were completely shut in upon a showing after notice and hearing that complete shut in of the well would result in naterial damage to the well or reservoir.

RULE 16. The monthly gas production from each gas well shall be metered separately and the gas production therefrom shall be reported to the Commission on Form C-115 so as to teach the Commission on or before the 24th day of the month next succeeding the month in which the gas was produced. The operator shall show on such report what disposition has been rade of the produced gas. nade of the produced gas.

RULE 17. Each purchaser or taker of gas shall submit a report to the Commission so as to reach the Commission on or refere the 15th day of the month next succeding the month in which the gas was purchased or taken. Such report shall be filed on Form C-111 with the wells being listed in the same order as they are listed on the appropriate proration schedule.

RULE 18. Failure to comply with any provision of these rules shall result in the immediate cancellation of allowable assigned to the affected well. No further allowable shall be assigned until all rules and regulations have been complied with. The Secretary-Director shall notify the operator of the well and purchaser in writing of the date of allowable cancellation and the reason therefor.

RULE 19. All transporters or users of gas shall file gas well-connection notices with the Commission as soon as possible after the date of connection.

- IT IS FURTHER ORDERED:
 (1) That the locations of all wells presently drilling to or completed in the West Parkway-Strawn Gas Pool or the West Parkway-Atoka Gas Pool or in the Strawn or Atoka formations within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the appropriate district office of the Commission in writing of the name and location of the well on or before November 1, 1973.
- (2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the West Parkway-Strawn Gas Pool and West Parkway-Atoka Gas Pool shall have dedicated thereo 320 acres, in accordance with the foregoing pool rules or pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 320 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable.

- (3) That this cause shall be reopened at an examiner hearing during October, 1974, to permit the operators in said pools to appear and present evidence to clearly establish the nature of said reservoirs, proper rates of production for wells therein, and special rules therefor.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

SOUTH DAGGER DRAW-UPPER PENNSYLVANIAN ASSOCIATED POOL Eddy County, New Mexico

Order No. R-4637, Creating and Adopting Temporary Operating Rules for the South Dagger Draw-Upper Pennsylvanian Associated Pool, Eddy County, New Mexico, October 1, 1973.

Application of Roger C. Hanks for Creation of a Pool and Special Rules Therefor, Eddy County, New Mexico.

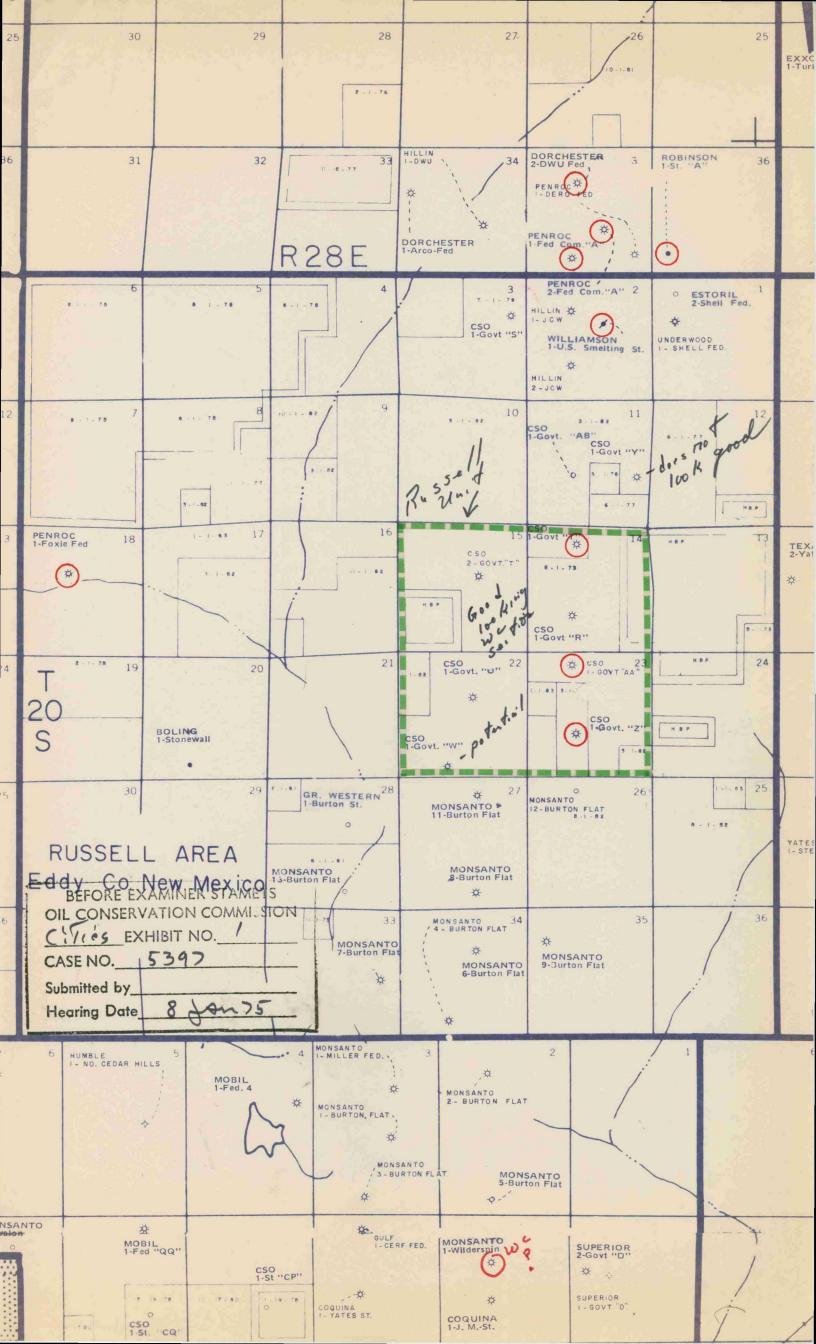
CASE NO. 5048 Order No. R-4637

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on August 22, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 26th day of September, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Roger C. Hanks, seeks the promulgation of special rules and regulations for the South Dagger Draw-Upper Pennsylvanian Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells. 320-acre spacing for all wells, a limiting gas-oil ratio of 8000 to one, and for the assignment of a special depth bracket allowable for oil wells of 267 barrels of oil per day.



R 28 E	DORCHESTER 1-Arco-Fed. 学 HILLIN 1-DWU 学	PENROC 2-Dero Fed. A PENROC 2-Dero Fed. A PENROC 1-Dero Fe. 2-Dero Fed.	STRAKE 1-St. A ¥	36	•
4	多 CSO 1-Covt, S	ROBINSON BR. 2 1-US, Smelting St 女 ** HILLIN 1-JCW PENROC HILLIN 1-JCW St. 2-JCW 女	∳ UNDERWOOD 1-Shell Fed.	1	
9	CSO 2-Govt, AB''	CSO 1-Govt, Y		12	
16	CSO 1-Govt. 'AC'' 洪	1-Govt: T: 14	CSO 2-Govil: Ach o	13	
21	CSO 1-Govt. Vu''	SSO 1-Govt; Z"		24	
28 GREAT WESTFRN 1-Burton ** MONSANTO 13 Burton Flat	27 が MONSANTO 11-Burton Flat MONSANTO 8-Burton Fiat 学	O 26 MONSANTO 12-Burton Flat MONSANTO 10-Burton Flat	₩ WOLFCAMP PRODUCER	MINER STAMFTS 9	ONSERVATION COMMISSION SEXHIBIT NO. NO. 5397 Ted by CATA Ted by CA
	H BURTON F ET PERMEAB EXHIBIT	SLE ISOPACH		BEFORE EXA	CLATE EXHICANT SUbmitted by Hearing Date

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

RUSSELL UNIT WOLFCAMP PRODUCTION CITIES EXHIBIT NO.

1974

CASE NO. 5377

Submitted by__

Hearing Date 8 2475

GOVERNMENT T-1

		MSCF	D BCPD	GOR	FTP
May		1005	253	3972	
June		846	221	3828	
July		778	198	3929	_
August		753	189	3984	_
Septembe	r	S.I.			
December	21	1900	339	5605	1700
11	22	1635	374	4372	1700
11	23	1483	354	4189	1350
11	24	1830	420	4357	1025
. 11	25	1633	391	4176	1000
. 11	26	1534	435	3526	900
. **	27	1400	390	3590	870
11	28	1235	266	4643	950
. 11	29	1222	317	3855	950
. 11	30	1200	240	5000	950
11	31	1200	266	4511	950
January	1	1200	240	5000	900
"	2	1040	348	2986	930
11	3	1126	270	4170	950

Cumulative gas - 133,223 MSCF Cumulative cond.- 33,950 STB

GOVERNMENT Z-1

		MSCFD	BCPD	GOR	FTP
December	21	352	143	2462	700
11	22	350	98	3571	690
11	23	350	82	4268	690
11	24	-	85	-	750
11	25	338		-	800
11	26	338	74	4568	810
11	27	330	80	4125	825
11	28	340	128	2656	1000
11 .	29	370	72	5139	925
11	30	265	78	3397	1010
11	31	315	77	4091	875
January	1	325	72	4514	875
H	2	265	71	3732	900
II	3	265	56	4732	1000

Cumulative gas - 4,116 MSCF Cumulative cond.- 1,162 STB

TABLE 1

RESERVOIR AND SAMPLING DATA

Well Name	Government Z#1
County, State	Eddy County, New Mexico
Perforated Interval	9219-9303
Formation	Wolfcamp
Well Completion Date	9-24-74
Sampling Date	11-21-74
Sampling Depth	8 814 feet
Sampling Temperature	152°F
Sampling Pressure	4635 psig
Perforated Interval Pressure	4825 psig

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	MODERANDO E DIDIVE
Citios	EKRETINO 3
1	53917
Submitted by	·
Hearing Da	te 8 f4n75

TABLE 2 RESERVOIR FLUID ANALYSIS SAMPLE COMPOSITIONS

Well Government Z#	Vice Ui		Тур	e of Sar		m-hole	Report Date	12=11-74
County Eddy		S	State	vew me	xico F	Country_ leservoir Flu at Saturation		3
	Field Separator Samplesa		at Saturation Experimental ^c			ulated		
Pressure (psig)					4	635	****	
Temperature (F)						153°F		
Gas-oil Ratio (cfd/bble)								(4)
Specific Gravity (Air=1.00) Measured					-			5 F Graves
Specific Gravity (Air=1.00) Calculated					Podbiel	niak		° 0'
Method of Analysis					Distill			,
	Liq		1	as	Mol %	GPM	Mol %	Vol %f GPM
Component	Mol %	Vol %	Mol %	GPM	1101 70			
Nitrogen					0.77			
Carbon Dioxide					0.02			
Hydrogen Sulfide				· · · · · · · · · · · · · · · · · · ·	0	0		
Methane					64.10			
Ethane					11.51	3.24		•
Propane					6.21	1.80		
iso-Butane					0.82	0.28		
n-Butane					2.67	0.89	1	
iso-Pentane					0.92	0.35	1	
n-Pentane	•				1.13	0.43		
Hexanes			<u> </u>	<u> </u>	1.59	0.69	İ	
Heptanes								
Octanes								
Nonanes Heptanes and Heaviers					10.26	7.24		
Total				<u> </u>	100.00	14.92	ļ	
Density, Heptanes			•		0.8076			
and Heavier, gm/cc at 6 Mol Wt., Heptaneand H A page similar to this sho	eaviers		- - 		162.3	om lower bre	sanra etagas	of senaration.
 A page similar to this sho For bubble-point oil or de Indicate type of sample; i 	w-point g	as.		ha+	tom-hole			of the state of th
d Base conditions: pressure-		•	sia, 60 F.			BEFORE	EXAMINI	ER STAMETS
e Indicate whether separator f Vol % for bubble-point oil Enter name of appropriat	l, GPM for	dew-poin	stock-tank t gas. Cro	oil———ss out abl	Ci	ASE NO.	EXHIBIT 539	
					S	ubmitted b	9 (an75
					H	learing D	ate	57/

TABLE 4

RESERVOIR FLUID BEHAVIOR AT 152°F (RESERVOIR TEMPERÄTURE)

GOVERNMENT Z#1

EDDY COUNTY, NEW MEXICO

<u>Pressure</u>	Volume Percent Liquid	Bbl Separated Oil Per MMSCF Separated Gas
4690 (Dew Point Pressure) 4680 4620 4540 4480 4350 4160 3960 3700 3480 3220 3000 2790 2570 2280 2010 1730 1470 1210 960 740	7.4 22.5 26.4 28.9 31.3 34.0 34.7 35.1 35.2 34.4 33.8 32.3 30.5 27.9 24.1 20.5 16.5 12.9 9.7 7.1	57.3 214.4 271.5 344.9 361.7 427.9 464.2 504.5 535.1 555.0 575.0 575.0 573.2 567.7 559.2 513.6 475.4 424.4 383.9 343.5 314.2
620	5.7	293.8

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION
CITIOS EXHIBIT NO. 5 CASE NO. 5397
Submitted by
Hearing Date 8 Hm/5

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CITIES SERVICE OIL COMPANY FOR THE CREATION OF A POOL AND POOL RULES FOR PRODUCTION FROM THE WOLFCAMP FORMATION, EDDY COUNTY, NEW MEXICO



APPLICATION

COMES NOW Cities Service Oil Company, by and through its attorneys, KELLAHIN & FOX, and applies to the New Mexico Oil Conservation Commission for the designation of a new pool for production from the Wolfcamp formation and for pool rules therefor, and in support thereof would show the Commission:

- 1. Applicant is the operator of Wolfcamp production wells located in Eddy County, New Mexico as follows:
 - (a) Government AA #1 Well, located 1980' from the North line and 1980' from the West line of Section 23, T20S, R28E;
 - (b) Government T #1 Well, located 660' from the North line and 1980' from the West line of Section 14, T20S, R28E;
 - (c) Government Z #1 Well, located 660' from the South line and 1980' from the West line of Section 23, T20S, R28E.
- 2. Applicant seeks the creation of a new pool for production by subject wells from the Wolfcamp formation.
- 3. Applicant further seeks the promulgation of pool rules for said pool, including provisions for the location of wells, the size of proration and spacing units, and

Date 12-26-74

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Case 5397

such other rules as the Commission deems appropriate.

WHEREFORE, Applicant respectfully requests that this application be set for hearing before the Commission's duly appointed Examiner and that upon hearing, an order be entered granting the Application as requested.

Respectfully submitted,

CITIES SERVICE QIL COMPANY

KELLAHIN & FOX P. O. Box 1769

Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

N-S CROSS SECTION (1)
CORIBAND LOGS

