CASE 7128: HNG OIL COMPANY FOR POOL CREATION, SPECIAL POOL RULES, ASSIGNMENT OF DISCOVERY ALLOWABLE, AND DUAL COMPLETION, LEA COUNTY, NEW MEXICO

CASE NO.

7/28

APPlication,
Transcripts,
Small Exhibits,

ETC.

Page 2 of 3 Examiner Hearing - Wednesday - January 14, 1981

- CASE 7125: Application of Western Oil Producers Inc. for the amendment of Order No. R-5399, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Division Order No. R-5399 to include production from all of the Pennsylvanian formations in its Anoco State Well No. 1 at an unorthodox location in Unit M of Section 28, Township 16 South, Range 33 East.
- CASE 7126: Application of Franks Petroleum, Inc. for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox location 1980 feet from the North line and 1315 feet from the West line, Section 3, Township 21 South, Range 32 East, Hat Mesa-Morrow Gas Pool, the N/2 of said Section 3 to be dedicated to the well.
- CASE 7127: Application of Ellwade Corporation for amendment of Order No. R-6399, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6399 which approved a 129.52-acre non-standard gas proration unit comprising the W/2 of Section 33, Township 26 South, Range 30 East, for the Wolfcamp formation in the Ross Draw Area. Applicant seeks to have said order also apply to all formations of Pennsylvanian age.
- CASE 6670: (Reopened and Readvertised)

In the matter of Case 6670 being reopened and pursuant to the provisions of Order No. R-6183 which order promulgated temporary special rules and regulations for the Red Hills-Devonian Gas Pool in Lea County, New Mexico, including a provision for 640-acre spacing units. Operators in said pool may appear and show cause why the pool should not be developed on 320-acre spacing units.

- CASE 7128: Application of HNG Oil Company for pool creation, special pool rules, assignment of a discovery—allowable, and dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks creation of a new Wolfcamp oil pool for its San Simon 6 State Comm. Well No. 1 located 1980 feet from the North line and 660 feet from the East line of Section 6, Township 22 South, Range 35 East, with special rules therefor, including provisions for 160-acre spacing. Applicant further seeks a discovery allowable for said well and approval for its dual completion to produce oil from the Wolfcamp and gas from an undesignated Morrow pool thru parallel strings of tubing.
- CASE 7129: Application of Koch Exploration Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the N/2 of Section 28, Township 28 North, Range 3 West, 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 7130:

 Application of Read & Stevens, Inc. for an unorthodox gas well location and two non-standard gas proration units, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of two 160-acre non-standard proration units in the Buffalo Valley-Pennsylvanian Gas Pool, the first being the SE/4 of Section 12, Township 15 South, Range 27 East, to be dedicated to its Trobough "A" State Com. Well No. 1 in Unit J, and the other being the NE/4 of said Section 12 to be dedicated to a well to be drilled at an unorthodox location 1315 feet from the North and East lines of the section.
- Application of Read & Stevens, Inc. for an unorthodox gas well location and two non-standard gas proration units, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of two 160-acre non-standard proration units in the Buffalo Valley-Pennsylvanian Gas Pool, the first being the SE/4 of Section 1, Township 15 South, Range 27 East, to be dedicated to its Trobough Com. Well No. 1 in Unit J, and the other being the NE/4 of said Section 1 to be dedicated to a well to be drilled at an unorthodox location 1315 feet from the North and East lines of the section.
- Application of Read & Stevens, Inc. for an unorthodox gas well location and two non-standard gas proration units, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of two 160-acre non-standard proration units in the Buffalo Valley-Pennsylvanian Gas Pool, the first being the SE/4 of Section 13, Township 15 South, Range 27 East, to be dedicated to its Rose Well No. 1 located in Unit J, and the other being the SW/4 of said Section 13 to be dedicated to a well to be drilled at an unorthodox location 1315 feet from the South and West lines of the section.

* NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Case 7128

Operator		en de la companya de la proposition de la companya	County	· · · · · · · · · · · · · · · · · · ·	and the same of the same and th	Date	
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P.O. Box 2267	, Midland,	Texas 79702	Sa	an Simon 6	State Con	q. 1	
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		ion Commission heretofo			ompletion of	a well in these same	pools or in the same
and the second s	1 A	et well? YES					•
2. If answer is yes, id-	entify one such	instance: Order No		; Operate	or Lease, and	Well No.:	
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3. The following facts	are submitted:				rmediate		
y we work and refer to	are submitted.	Upper		1	rmediate Zone	*	Lower
a. Name of Pool and	l Formation	Und. Wolfcamp		<u> </u>		Und. Morr	OM
b. Top and Bottom o	of ·	Oliai norresir					
Pay Section		11,132' - 11,	1.54 📆	D. T. D.	(ES)	13, 110¹ -	13,117'
(Perforations)		11,100	71			1	
c. Type of production	on (Oil or Gas)	011	טבר	0 5 1980		Gas	
d. Method of Produc	tion		7-066	0 0 1000			
(Flowing or Art	tificial Lift)	Flowing	20610	Market A DIP	2101/	Flowing	•
4. The following are at	tached. (Please	check YES or NO)	OIL CC 'S'	ANTA FE	5,014		
Yes No			3,	ANIAIL			
		h of the Multiple Comple					
diam	and/or turboll eters and settir	zers and location thereo ig depth, location and ty	r, quantities	s used and top of s and side door c	r cement, peri hokes, and su	ich other information a	is may be pertinent.
ATT 1		cation of all wells on a					
of op	erators of all le	eases offsetting applican	nt's lease.	y vx			
X c. Waive	ers consenting	to such multiple comple ished copies of the app	erion from ea	ich offset operat	er, er in lieu	thereof, evidence tha	t said offset opera-
	L.	e well or other acceptate		tons and hotton	s of produci	no zones and interval	s of perforation in-
dicat	ed thereon. (If	such log is not available	e at the time	application is f	iled it shall	be submitted as provi	ded by Rule 112-A.)
5. List all offset opera	tors to the leas	e on which this well is	located toget	ther with their c	orrect mailing	g'address.	
		1700, Midland,		702			
Danon youngarry						· · · · · · · · · · · · · · · · · · ·	
Phillips Petro	oleum, Phi	llips Bldg., Odes	ssa, Texa	as 79761			The second second
			:)		ers.		
Northern Nat'	L. Gas Co.	403 Wall Towers	s West, M	iidland, Te	xas 7970)1	
						-0	•
Texaco, Inc.,	Box 3109,	Midland, Texas	79702	· :		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
			er y To the english				
Amerada Hess	Corp., 220	7 West Industria	al, Midla	ind, Texas	79701		
	The second second	en e					
Getty 011 Co.	Box 1231	, Midland, Texas	79702				
6. Were all operators li	sted in Item 5 :	above notified and furnis	shed a copy of	of this applicat	ion? YES_}	NO If as	nswer is yes, give
date of such notificat	tionDecer	mber 1, 1980	• •	100			
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CERTIFICATE: I, c		, state that I am the <u>Re</u>		and the second s	of the	AND THE RESERVE OF THE PROPERTY.	<u> </u>
under my supervision and		company), and that I am that the facts stated the					
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5. Amoco Proc			3 6	0	۶		
P.O. Box		30	\mathcal{R}	ma. A	el Dan	ر Betty A	. Gildon
Midland,	Texas 7970	JZ		9		Signature	
그는 이 얼룩하는 것 같아 있다.	di Sudaan kan ang sangan	Carlotte Carlotte Control of				al Maria Barahila .	

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in one or of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

13% 484/FT, HTC, ST+C
54.5 /rr, y8 + K-55, 5T+C
@ 1085 w/1450 sx (circ.)
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28 1.7" N 80C - 238" 4.7 /=T N-80 Nulock
956" 36 = 1
95/8" 36 1/FT, K-SS+5-80, ST+C
- 1- 3450 sx. (circ.)
Calc. cement top 9060' (@ 60% eff:)
70,782
4/4 TIWPER 7" 23 1/FT 5-95 LT+C 55
@ 11,014 . w/750 sx
wolf camp Perfs:
11,132-54'
2/8 7.90 /FT Plus PH-6.
4" To 1800 - 1500 FT N-80 LT+C
4" TIW PBR & API'NOX I MATELY 11,332'
TIN RLN W/ OTIS 1.875 IO PROFILES
Morrow Perfs: No centralizers installed.
13,110-17'
PBTO (W 13.212)
PBTD @ 13,217' 4/2", 13.50 #/FT N-80 1776 @ 13,300' W/400 \$ (circ.)
1. J. J. J. 117 N. 80 27+ C. @ 13,300' W/400 sx. (circ.)

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NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO. APPLICATION FOR MULTIPLE COMPLETIONS

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			SANTA FE	31014
Cretator		County		Date
HNG Oil Company	en die 8 kg is spesimenterste Sk gan der generale er schause, ern stagen der sie verbeit in versche service se	Lease		12-1-80 Well No.
P.O. Box 2267, Midland,		San Si	mon 6 State Com	. 1
Location Unit H	ectior.	ownship 228		Range 35E
			pultiple completion of a	well in these same pools or in the sam
zones within one mile of the subject			addipte completion of a	wert in these same poors of in the same
2. If answer is yes, identify one such			Operator Lease, and	Well No.:
2 21				
3. The following facts are submitted:	Upper Zone	-	Intermediate	Lower
a. Name of Pool and Formation			Zone	Zone Und. Morrow
b. Top and Bottom of	Ind. Wolfcamp			Und. Morrow
Pay Section	11,132' - 11,150	A1	₹.	13,110' - 13,117'
(Perforations)	1 11,152 - 11,15	7		13,110
c. Type of production (Oil or Gas)	011			Gas
d. Method of Production				
(Flowing or Artificial Lift)	Flowing			Flowing
4. The following are attached. (Please				
izers and/or turboli diameters and setting. B. Plat showing the log of operators of all log of the	zers and location thereof, on a depth, location and type cation of all wells on appli- enses offsetting applicant's to such multiple completed ished copies of the applica-	quantities used of packers and sicant's lease, as lease, on from each off ation.*	and top of cement, perforded and such ide door chokes, and such ill offset wells on offset operator, or in lieu to	g diameters and setting depths, central- trated intervals, tubing strings, including the other information as may be pertinent. It leases, and the names and addresses thereof, evidence that said offset opera-
dicated thereon. (If	such log is not available a	t the time applic	ation is filed it shall b	g zones and intervals of perforation in e submitted as provided by Rule 112-A.
5. List all offset operators to the leas			th their correct mailing	address.
Exxon Company, USA, Box	1700, Midland, Te	xas /9/02		
Phillips Petroleum, Phi	llips Bldg., Odess	a, Texas 7	9761	and the second
Northern Nat'l. Gas Co.	, 403 Wall Towers	West, Midla	nd, Texas 7970	1
Texaco, Inc., Box 3109,	Midland, Texas 79	9702		
Amerada Hess Corp., 220	7 West Industrial	, Midland,	Texas 79701	
0-14-0-1221	Malond Torrog	70702		
Getty Oil Co., Box 1231			l' ura	ر از
6. Were all operators listed in Item 5 and date of such notification	the contract of the contract o	d a copy of this	application? YES X	NO
CERTIFICATE: 1, the undersigned				
under my supervision and direction and	company), and that I am au that the facts stated therei	thorized by said n are true, corre	company to make this r ct and complete to the l	eport; and that this report was prepared best of my knowledge.
5. Amoco Prod. Co. P.O. Box 1725 Midland, Texas 7970	0 2 >.	Rem	a. Judon	Betty A. Gildon

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

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NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

<i>e</i>	APPLICATION FO	R MULTIPLE COMPLETION	
		1 DEC 0 5 1999	
HNG Off Company		Lea C(18	Pate 12-1-80
P.O. Box 2267, Midland	, Texas 79702	San Simon 6 State Com	· 1
Location Unit		waship	Range
of Well H	6	228	35E
1. Has the New Mexico Oil Conserv		uthorized the multiple completion of a	well in these same pools or in the same

The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Und, Wolfcamp		Und. Morrow
b. Top and Bottom of Pay Section (Perforations)	11,132' - 11,154'	-	13,110' - 13,117'
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

Operator Lease, and Well No.:

4. The following are attached. (Please check YES or NO)

2. If answer is yes, identify one such instance: Order No.

Yes	No_	
X.	a.	Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including
		diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X	[] Ъ.	Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X	c.	Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
X	d.	Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation in-

dicated thereon. (If such log is not available at the time application is filed it shall be submitted as pro	vided by Rule 112-
List all offset operators to the lease on which this well is located together with their correct mailing address.	
 Exxon Company, USA, Box 1700, Midland, Texas 79702	
	A Company of the Comp
 Phillips Petroleum, Phillips Bldg., Odessa, Texas 79761	

Northern Nat'1. Gas Co., 403 Wall Towers West, Midland, Texas 79701

Texaco, Inc., Box 3109, Midland, Texas 79702

Amerada Hess Corp., 2207 West Industrial, Midland, Texas 79701

Gerty Oil Co., Box 1231, Midland, Texas 79702

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X

date of such notification <u>December 1, 1980</u>

CERTIFICATE: I, the undersigned, state that I am the <u>Regulatory Clerk</u> of the <u>HNG 011</u>

(company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

5. Amoco Prod. Co.
P.O. Box 1725
Midland, Texas 79702

Runa. Ricon Betty A. Gildon Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit it; One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

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CAMPBELL AND BLACK, P.A.

LAWYERS

JACK M. CAMPBELL BRUCE D. BLACK MICHAEL B. CAMPBELL WILLIAM F. CARR POST OFFICE BOX 2208

JEFFERSON PLACE

SANTA FE, NEW MEXICO 87501

TELEPHONE (505) 988-4421

December 22, 1980

Mr. Joe D. Ramey Division Director Oil Conservation Division New Mexico Department of Energy & Minerals Post Office Box 2088 Santa Fe, New Mexico 87501

Case 7/28

Re: Application of HNG Oil Company for Pool Creation, Special Pool Rules, an Oil Discovery Allowable and approval of a Dual Completion, Lea County, New Mexico

Dear Mr. Ramey:

Enclosed in triplicate is the application of HNG 0il Company in the above-referenced matter.

The applicant requests that this matter be included on the docket for the examiner hearing scheduled to be held on January 14, 1981.

Very truly yours

William F. Carr

WFC:1r

Enclosures

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF HNG OIL COMPANY FOR POOL CREATION, SPECIAL POOL RULES, AN OIL DISCOVERY ALLOWABLE, AND APPROVAL OF A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

Case 7/28

APPLICATION

Comes now, HNG OIL COMPANY, by and through its undersigned attorneys, and hereby makes application for an order designating a new pool as a result of a discovery of hydrocarbons in the Wolfcamp Formation in its San Simon 6 State Comm. No. 1 Well, promulgating special pool rules for said pool, including 160 acre spacing or proration units, establishing an oil discovery allowable, and approving a dual completion, and in support thereof, would show the following:

1. That applicant has recently completed its San Simon 6 State Comm. No. 1 Well in the Wolfcamp and Morrow formations capable of producing oil and gas in paying quantities, located 1980 feet from the North line and 660 feet from the East line of Section 6, Township 22 South, Range 35 East, Lea County, New Mexico. Said well is producing through perforations from 11,132 feet to 11,154 feet in the Wolfcamp formation and 13,110 feet to 13,117 feet in the Morrow formation and was potentialed in the Wolfcamp as capable of producing 408 barrels of oil per day and 1315 mcf. of gas per day and was potentialed as capable of producing from the Morrow 1979 mcf. of gas per day, 63 barrels of condensate per day.

11132

2. Applicant believes the following described lands are reasonably proven to be productive of oil and gas in paying quantities from the Wolfcamp formation and should be included in the original definition of the new pool to be created because of said discovery:

Township 22 South, Range 35 East, N.M.P.M. Section 6: NE/4

- 3. In order to prevent economic loss caused by the drilling of unnecessary wells, to avoid augmentation of risk arising from the drilling of an excessive number of wells and to otherwise prevent waste and protect correlative rights, special pool rules and regulations providing for 160 acre spacing units should be promulgated for the new pool.
- 4. Applicant requests that the Division establish a discovery allowable for the San Simon 6 State Comm. No. 1 Well in accordance with Rule 509 of the Division's Rules and Regulations.
- 5. The Morrow zone in the San Simon 6 State Comm. No. 1 Well is classified as a gas zone and the Wolfcamp zone in said well is classified as an oil zone. Applicant seeks approval to complete said San Simon 6 State Comm. No. 1 Well as a gas-oil dual completion and will offer testimony to show that the well will be completed in such a manner as to effectively prevent communication between the two producing horizons and will result in a greater ultimate recovery of oil and gas from the two pools.

6. No waste will occur as a result of granting this application and the correlative rights of all owners, including offset owners, will be fully protected.

WHEREFORE, HNG 011 Company requests that this application be set for hearing before a duly appointed examiner of the 011 Conservation Division on January 14, 1981, that notice be given as required by law and the rules of the Division and that the application be approved.

Respectfully submitted,

CAMPBEIL AND BLACK, P.A.

by William F. Carr

Attorneys for Applicant Post Office Box 2208

Santa Fe, New Mexico 87501

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF HNG OIL COMPANY FOR POOL CREATION, SPECIAL POOL RULES, AN OIL DISCOVERY ALLOWABLE, AND APPROVAL OF A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

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Respectfully submitted,

CAMPBELL AND BLACK, P.A.

Sullan & Corr

Attorneys for Applicant

Post Office Box 2208 Santa Fe, New Mexico

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF HNG OIL COMPANY FOR POOL CREATION, SPECIAL POOL RULES, AN OIL DISCOVERY ALLOWABLE, AND APPROVAL OF A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

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- 3. In order to prevent economic loss caused by the drilling of unnecessary wells, to avoid augmentation of risk arising from the drilling of an excessive number of wells and to otherwise prevent waste and protect correlative rights, special pool rules and regulations providing for 160 acre spacing units should be promulated for the new pool.
- 4. Applicant requests that the Division establish a discovery allowable for the San Simon 6 State Comm. No. 1 Well in accordance with Rule 509 of the Division's Rules and Regulations.
- 5. The Morrow zone in the San Simon 6 State Comm. No. 1 Well is classified as a gas zone and the Wolfcamp zone in said well is classified as an oil zone. Applicant seeks approval to complete said San Simon 6 State Comm. No. 1 Well as a gas-oil dual completion and will offer testimony to show that the well will be completed in such a manner as to effectively prevent communication between the two producing horizons and will result in a greater ultimate recovery of oil and gas from the two pools.

6. No waste will occur as a result of granting this application and the correlative rights of all owners, including offset owners, will be fully protected.

WHEREFORE, HNG Oil Company requests that this application be set for hearing before a duly appointed examiner of the Oil Conservation Division on January 14, 1981, that notice be given as required by law and the rules of the Division and that the application be approved.

Respectfully submitted,

CAMPBEIL AND BLACK, P.A.

by William E Carr

Attorneys for Applicant Post Office Box 2208

Santa Fe, New Mexico 87501

No waste will occur as a result of granting this application and the correlative rights of all owners, including offset owners, will be fully protected.

WHEREFORE, HNG Oil Company requests that this application be set for hearing before a duly appointed examiner of the Oil Conservation Division on January 14, 1981, that notice be given as required by law and the rules of the Division and that the application be approved.

Respectfully submitted,

CAMPBEIL AND BLACK, P.A.

Attorneys for Applicant Post Office Box 2208 Santa Fe, New Mexico 8

87501

P. O. BOX 2267, MIDLAND, TEXAS 79702 OIL (915) 683 467 0 9 1980

December 2, 1980 VATICY DIVISION

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

Attn: Mr. Dan Nutter

In Re: San Simon 6 State Com., Well No. 1

Und. Morrow

Lea County, Texas

Dear Mr. Nutter:

Tubing for the above-named well has been set at 10,782 feet with packer at 11,332 feet, and casing perforated from 13,110 to 13,117 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Brenza. Beldon

Betty A. Gildon Regulatory Clerk

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INSTRUCTIONS

This form is to be filed with the appropriate Edstard Office of the Commission and later than 20 days after the completion of any newly-drilled or degened well. It shall be accompanied by one copy of all electrical and radio-activity loss run on the well and a summary of all special ests conducted, including drill stem tests. All depths exercised for measured by this. In the case of directionally drilled wells, the vertical depths shall also 1 to reported. For multiple completions, themselve through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on state land, where six copies are required. See fully 11.5.

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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. 7/28 Order No. <u>A-6586</u>

Application of HNG Oil Company for pool creation, special pool rules, assignment of a discovery allowable, and dual completion, Lea County, New Mexico.

ORDER OF THE DIVISION (

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BY THE DIVISION: This cause came on for hearing at 9 a.m. on 19 8/, at Santa Fe, New Mexico, before Examiner NOW, on this day of 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, #NG Oil Company.

seeks creation of a new Wolfcamp oil pool for its San Simon 6 State Comm. Well No. 1 located 1980 feet from the North line and 660 feet from the East line of Section 6, Township 22 South, Range 35 East, with special rules therefor, including provisions for 160-acre spacing.

(3) that the

turther seeks a discovery allowable for said well and approval for its dual completion to produce oil from the Wolfcamp and gas from an undesignated Morrow pool thru parallel strings of tubing.

- owner of the Sin Sin 65th Well No. / a Reated in Unit Hof Section Now Mexico Range 30 Costs. WIRM home County,
- (5) (3) That said well was completed as an ", well capable of producing from the Wolfermpa Formations (1) by by both 1,180, through perforations from 1/32 feet to 11,154 feet and 13,110 feet to 13,117 feet,
- (6) (4) That the applicant seeks the creation of a new pool for Wifeen, production for said well, and the assignment of an oil discovery allowable in the amount of 55,660 barrels of oil to said well.
- (7) (5) That said well has in fact made discovery of a new/oil pool, and is entitled to the assignment of such discovery allowable.
- (8) (6) That a new pool in Lew County, New Mexico, should be created and defined, classified as an oil pool for Wolfeamp production, and designated as the San Simon-Wolfeamp Oil Pool, comprising the following-described lands:

TOWNSHIP 19 NORTH, RANGE 5 WEST, NMPM.
Section 19: NW/4 6: NC/4

- (9) (7) That the discovery well for said pool, the HNG Or Company San Simm (State Com Well No. /, located in Unit H of said Section 6 should be assigned an oil discovery allowable in the amount of 55,660 barrels to be produced in addition to the well's regularly assigned allowable during the next 730 days.
 - the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for 160-acre spacing units should be promulgated for the San Spaces Welfoump Pool.
 - (//) (9) That the special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
 - (17) (3) That the mechanics of the proposed with good conservation practices.
 - (13)(4) That approval of the subject application will prevent waste and protect correlative rights.

(1) That a new pool in here ! County, New Mexico, classified as an oil pool for Wolf camp production., is hereby created and designated as the Sam Simon-Wolfcamp Oil Pool, consisting of the following described area:

TOWNSHIP 19 NORTH, RANGE 5 WEST, NMPM Section 15: NW/26 6: NE/4

- (2) That the discovery well for said pool, the HNG Of Company Sam Simm (Switz Company Well No. /, located in Unit H of said Section 6, is hereby assigned an oil discovery allowable in the amount of 55,660 barrels, to be produced in addition to said well's regularly assigned allowable, at the rate of approximately 77 barrels per day during the next 730 days.
- (3) (2) That Special Rules and Regulations for the Sam Symon Wolfering Pool, Lea County, New Mexico, are hereby promulgated as follows:

FOR THE Say Symposic Wolfers POOL

- RULE 1. Each well completed or recompleted in the San Substitute of the Wolfcamp in Pool or in the Wolfcamp formation within one mile of the San Substitute Wolfcamp to Pool, and not nearer to nor within the limits of another designated which pool, shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.
 - RULE 2. Each well completed or recompleted in the Son Single, welfer Pool shall be located on a unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Lands Survey.
 - RULE 3. Each well completed or recompleted in said pool shall not be drilled closer than 660 feet to any quarter section line nor closer than 330 feet to any quarter-quarter section line.
 - RULE 4. For good cause shown, the Division Director may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising less than 160 acres. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Division Director may

approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to an established allowable in the Sam Sum - Molkump Pool as the acreage in such non-standard unit bears to 160 acres.

in the Sansan plus / lang Pool shall be assigned a depth bracket allowable of 605 barrels, subject to the market demand percentage factor, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit in any proportion.

II 15 FURTHER ORDERED:

(1)(3) That the locations of all wells presently drilling to or completed in the San Simon Wolfram? Pool or in the wolfram? Pool or in the wolfram? formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs 1 District Office of the Division in writing of the name and location of the well on or before May / 1981.

2-(4) That, pursuant to Paragraph A. of Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, existing wells in the Sam Simon-Walfamp Pool shall have dedicated thereto/60 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

Failure to file new forms C-102 with the Division dedicating 160 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the San Sinton-Wolfeamp Pool or in the Wolfeam formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

Further
IT IS THEREFORE ORDERED:
(1) That the applicant, 1-1 NG Oil Company,
is hereby authorized to complete its San Simon 6 State Com
Well No. / , located in Unit // of Section 6 ,
Township 12 South, Range 35 Est, NMPM, Leu
County, New Mexico, as a <u>duel</u> completion(conventional) (combination) (tubingless)
to produce for from the Wolfcomp formation and gos from the
Morrow formation thru parallel strings of tubing with
separation of the zones to be accomplished by means
of polished box receptales located at approx mately 10 782 he tand
PROVIDED HOWEVER, that the applicant shall complete, operate
and produce said well in accordance with the provisions of Rule
112-A of the Division Rules and Regulations insofar as said rule
is not inconsistent with this order;
PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and
annually thereafter during the Annual Shut In Pressure
Test Period for the gas wells in Sentheustern New Mericon.
(2) 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.

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

february 13, 1981

dr. William F. Carr Campbell and Black	Re: CASE NO. 7128 ORDER NO. R-6586
Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico	Applicant:
	HNG 011 Company
Dear Sir:	
Enclosed herewith are two cop Division order recently enter	
Yours very truly, JOE D. RAMEY Director	
JDR/fd	
Copy of order also sent to:	
Hobbs 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. 7128 Order No. R-6586

APPLICATION OF HNG OIL COMPANY FOR POOL CREATION, SPECIAL POOL RULES, ASSIGNMENT OF A DISCOVERY ALLOWABLE, AND DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on January 14, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this loth day of February, 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, HNC Oil Company, seeks creation of a new Wolfcamp oil pool for its San Simon 6 State Comm. Well No. 1 located 1980 feet from the North line and 660 feet from the East line of Section 6, Township 22 South, Range 35 East, with special rules therefor, including provisions for 160-acre spacing.
- (3) That the applicant further seeks a discovery allowable for said well and approval for its dual completion to produce oil from the Wolfcamp and gas from an undesignated Morrow pool through parallel strings of tubing.
- (4) That the applicant, HNG Oil Company, is the owner of said San Simon 6 State Comm. Well No. 1.

-2-Case No. 7128 Order No. R-6586

- (5) That said well was duelly completed as an oil well and as a gas well capable of producing from the Molfcamp and Morrow formations on October 31, 1980, through perforations from 11,132 feet to 11,154 feet and 13,110 feet to 13,117 feet, respectively.
- (6) That the applicant easks the creation of a new pool for Wolfcamp production for said well, and the assignment of an oil discovery allowable in the amount of 55,660 barrels of oil to said well.
- (7) That said well has in fact made discovery of a new Wolfcamp oil pool, and is entitled to the assignment of such discovery allowable.
- (8) That a new pool in Lea County, New Mexico, should be created and defined, classified as an oil pool for Wolfcamp production, and designated as the San Simon-Wolfcamp Oil Pool, comprising the following-described lands:

TOWNSHIP 22 SOUTH, RANGE 35 EAST, NMPM Section 6: NE/4

- (9) That the discovery well for said pool, the HNG Oil Company San Simon 6 State Comm. Well No. 1, located in Unit H of said Section 6 should be assigned an oil discovery allowable in the amount of 55,660 barrels to be produced in addition to the well's regularly assigned allowable during the next 730 days.
- (10) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for 160-acre spacing units should be promulgated for the San Simon-Wolfcamp Pool.
- (11) That the special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (12) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (13) That approval of the subject application will prevent waste and protect correlative rights.

-3-Case No. 7128 Order No. R-6586

IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production, is hereby created and designated as the San Simon-Wolfcamp Oil Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 35 EAST, NMPM Section 6: NE/4

- (2) That the discovery well for said pool, the HNG Gil Company San Simon 6 State Comm. Well No. 1, located in Unit H of said Section 6, is hereby assigned an oil discovery allowable in the amount of 55,660 barrels, to be produced in addition to said well's regularly assigned allowable, at the rate of approximately 77 barrels per day during the next 730 days.
- (3) That Special Rules and Regulations for the San Simon-Wolfcamp Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE SAN SIMON-WOLFCAMP POOL

- RULE 1. Each well completed or recompleted in the San Simon-Wolfcamp Pool or in the Wolfcamp formation within one mile of the Sen Simon-Wolfcamp Pool, and not nearer to nor within the limits of another designated Wolfcamp pool, shall be spaced, drilled, operated, and provated in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well completed or recompleted in the San Simon-Wolfcamp Pool shall be located on a unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Lands Survey.
- RULE 3. Each well completed or recompleted in said pool shall not be drilled closer than 660 feet to any quarter section line nor closer than 330 feet to any quarter-quarter section line.
- RULE 4. For good cause shown, the Division Director may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising less than 160 acres. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Division Director may

Case No. 7128 Order No. R-6586

approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to an established allowable in the San Simon-Wolfcamp Pool as the acreage in such non-standard unit bears to 160 acres.

RULE 5. A standard proration unit (158 through 162 acres) in the San Simon-Wolfcamp Pool shall be essigned a depth bracket allowable of 605 barrels, subject to the market demand percentage factor, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit in any proportion.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the San Simon-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Division in writing of the name and location of the well on or before May 1, 1981.
- (2) That, pursuant to Paragraph A. of Section 70-2-18, NMS/ 1978, contained in Chapter 271, Laws of 1969, existing wells in the San Simon-Wolfcamp Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

Failure to file new Forms C-102 with the Division dedicating 160 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the San Simon-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

IT IS FURTHER ORDERED:

(1) That the applicant, HNG Oil Company, is hereby authorized to complete its San Simon 6 State Comm. Well No. 1, located

-5-Case No. 7128 Order No. R-6586

in Unit H of Section 6, Township 22 South, Range 35 East, NMPM, Lea County, New Maxico, as a dual completion (conventional) to produce oil from the Wolfcump formation and gas from the Morrow formation through parallel strings of tubing with separation of the zones to be accomplished by means of polished bore receptations located at approximately 10,782 feet and 11,356 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for gas wells in Southeastern New Mexico.

(2) 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.

STATE OF NEW MEXICO
OLL CONSERVATION DIVISION

DUE D. RAMEY

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 14 January 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of HNG Oil Company for) pool creation, special pool rules,) assignment of a discovery allowable,) and dual completion, Lea County, New) Mexico.

CASE 7128

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

William F. Carr, Esq. CAMPBELL, BYRD, & BLACK Jefferson Place Santa Fe, New Mexico 87501

For the Applicant:

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MR. CARR: At this time, Mr. Examiner, I would like to call Stewart Martin, and would ask that Mr. Martin be permitted to sit at the side of the table since he's working with some fairly large exhibits.

MR. STAMETS: That will be fine.

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Mr. Martin, will you briefly state what

feet from the east line, at a standard gas location. The

east half of Section 6 was dedicated to the gas zone. This well was dually completed in the Wolfcamp, as shown on the plat. The first oil run from the Wolfcamp zone was made on 10-31-80 during the potential test.

Moving over to Section 36 in Township 21
South, 34 East, it's near the perimeter where the "A" is on
the cross section, we have a Getty well that's dually completed
in the Wolfcamp formation and the Morrow in late September,
September, 1979. The oil zone in the Morrow was designated
oil originally in the original completion but later, at a
hearing in early 1980 the Commission designated it as a gas
reservoir retrograde condensate.

Getty subsequently drilled their No. 2 well in the southeast quarter of the same section and the Morrow was not productive and it was completed as a gas well.

Moving over to the east in Section 32 --MR. STAMETS: Run that by me again on
that Getty well. What wasn't productive?

A. The Wolfcamp was not productive and it was made as a single Morrow completion.

MR. STAMETS: Thank you.

Moving over to Section 2 along the south line, Phillips Petroleum has proposed their No. 32
State 1-A to HNG and Northern Natural Gas, or Nortex Gas and

Oil, and this location has not been filed with the Commission as yet. They're waiting on a rotary.

MR. STAMETS: My hearing must be off today. Did you say Section 2 or Section 32?

A Section 32.

MR. STAMETS Okay.

A. One and a half miles west of our well in Section 1 of 22 South, 34 East, there's a single Morrow completion by Getty Oil Company, their Getty State 1-1.

Moving south in Section 12 of the same township, Texaco has a Morrow completion, their No. 1-DU State, a single Morrow completion.

Moving one mile east in Section 7, along the south line, Amoco is currently testing their No. 1 GC State in the Wolfcamp. To date they ran production tests in the Morrow that were not of commercial value.

The shallow production to the northeast of this discovery well in Section 32, 29, Section 30, is shallow Yates oil production, which is classified in the San Simon-Yates Field, at a depth of about 3800 feet.

That's all I have.

On This map also has a trace on it which is the trace of the cross section, which will be entered as a subsequent exhibit, is that correct?

has been marked for identification as HNG Exhibit Two and review this for Mr. Stamets.

A Yes, sir. I'll have to stand up for this since it's -- this is a cross section which is marked in red on the first one, also in the insert in this Exhibit Number Two.

Starting from the top - this consists of four wells, the Getty -- Getty 36 State Com No. 1, first well in the cross section. Second well is the Getty -- Getty 36 State Com No. 2. The one in the middle is the HNG Oil Company San Simon State 6 Com No. 1, and the one to the right is the Amoco Production Company State "GC" Com No. 1.

Going back to the Getty well on the far left, we see it is completed in the Wolfcamp, which I consider a patch reef. Potential is on the left side of the well-bore and it also shows a Morrow completion.

The next well, which is the Getty State

36 Com No. 2, shows its Wolfcamp essentially shaled out; some

live stringers but no porosity. It was completed in the

Wolfcamp -- or in the Morrow sand at 12,946 to 954.

Going to the HNG discovery well, we encountered another patch reef at a higher structural elevation but we have an oil well, and Getty's is a retrograde condensate; why it is, I don't know, but it is, and I can't

explain why we have oil higher than retrograde condensate.

And we have also our Morrow perfs on this cross section from 13,110 to 117.

Moving to the Amoco well, in the same equivalent stratigraphic horizon as our Wolfcamp completion, Amoco took a drill stem test and recovered 1500 feet of free oil with good bottom hole pressures. Their - the current set of perforations they're testing is down at 11,728 to 806 in the lower portion of the Wolfcamp formation.

This cross section is set on a structural datum of -9500 feet, which is at the bottom of the cross section.

Mr. Martin, in your opinion is the Wolfcamp Pool in the discovery well a new Wolfcamp oilpool not being produced by any other well in the area?

A. Yes, sir.

Mill you now refer to what has been marked for identification as HNG Exhibit Number Three and explain this to Mr. Stamets?

This is a consulting paleontologist's report made on our well by Mr. Harold L. Williams, consulting paleontologist in Midland, Texas, and if you'll look at the second page especially, in the middle of page, where it says 11 -- 10,990 to 11,620, he identifies Wolfcamp fossils, and

1		14
2	Ω.	Will HNG call another witness to provide
3	our reservoir engine	ering
4	A.	Yes, sir.
5	Q.	data on this pool?
6	A.	Our reservoir engineer, Mr. Anchor Holm.
7	Q	Were Exhibits One through Five prepared
. 8	by you or under your	supervision and direction?
9	A.	Yes, sir.
10		MR. CARR: At this time, Mr. Stamets, we
11	would offer Exhibits	One through Five.
12		MR. STAMETS: These exhibits will be
13	admitted.	
14		MR. CARR: I have nothing further of
15	this witness on direc	ot.
16		
17		CROSS EXAMINATION
18	BY MR. STAMETS:	
19	Q	Mr. Martin, it would appear as though
20	what you've drawn her	re, or what you've illustrated here, are
21	separate patch reefs	
22	A. (1)	Yes, sir.
23	Q	in the area. To your knowledge is
24	any other well comple	eted in the Wolfcamp in the same patch
25	reef that you show yo	our well completed in on Exhibit Five?

1			.15
2	ħ.	No, sir.	
3	* · · · · · · · · · · · · · · · · · · ·	What about the Amoco	well, is it con-
4	ceivable that tha	t might be in the same	
5	A.	It could possibly he.	Like the cross
6	section shows, we	just show it like a strip	nger. It doesn't
7	look like a reef,	the cleanliness of a ree	f.
8	Q.	Now you indicated the	Getty had a retro-
9	grade condensate	reservoir.	
10	A.	Yes, sir.	
11	o.	What's the nature of	the oil that is
12	being produced fro	om your well?	
13	A.	That testimony will	
14	Q (1)	The next witness.	
15	A	be brought out by t	the next witness.
16	He has several exi	ibits on it.	
17		MR. STAMETS: Any other	r questions of
18	this witness? He	may be excused.	
19		MR. CARR: At this tim	e I would call
20	Anchor Holm.		
21			
22		ANCHOR E. HOLM	
23	being called as a	witness and being duly sw	orn upon his oath,
24	testified as follo	ws, to-wit:	
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DIRECT EXAMINATION

BY MR. CARR:

Will you state your name for the record,

6 please?

Anchor E. Holm.

Where do you reside?

A. 2815 West Frontier, Midland, Texas.

Q By whom are you employed and in what

11 | capacity?

A. HNG Oil Company as a Senior Reservoir

13 | Engineer.

A Have you previously testified before this Commission or one of its Examiners and had your credentials accepted and made a matter of record?

A. No, I have not.

Q Would you briefly summarize for Mr.

Stamets your educational background and your work experience?

I received a Bachelor of Science degree in geological engineering from the University of Arizona in 1967. I graduated from there. I went to work for Texaco, Incorporated, as a production engineer in the southeast Utah area for two years. Half a year with Texaco as a reservoir

engineer I was stationed in Farmington, New Mexico.

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Following working for Texaco I went to work for El Paso Natural Gas for four years as a drilling engineer in Farmington, New Mexico, and subsequently three years as a reservoir engineer in El Paso, Texas.

I spent a little over one and one-half years with the First National Bank of Midland as a petroleum engineer, where I was an in-house consultant for the bank.

And since May of 1980 I have been working for HNG Oil as a Senior Reservoir Engineer.

Are you familiar with the application of this case?

A. Yes, I am familiar, and also, I am registered in the State of Texas as a professional engineer.

Are you familiar with the subject well and the general area involved in this case?

A. Yes, I am.

MR. CARR: Are the witness' qualifications as a reservoir engineer acceptable.

MR. STAMETS: They are.

Mr. Holm, will you refer to what has been marked as HNG Exhibit Number Six and review this for the Examiner?

A. HNG Exhibit Number Six is a xeroxed copy of a portion of an open hole compensated neutron formation

density log run on the subject well. On it we have marked the location of the upper 4-1/2 inch Texas Ironworks polished bore receptacle which is set at 10,782. We show the Wolfcamp perforations from 11,132 to 11,154 feet. We show the lower 4-inch PBR set at 11,356 feet and we show the Morrow perforations at 13,110 to 117 feet with a plugback TT -- plugback TD, as 13,217 feet. This is a porosity log and the parameters are indicated on the top.

Q. Is HNG also seeking authority to dually complete this well?

A Yes, HNG is seeking multiple completion.

Q Will you identify what has been marked Exhibit Number Seven and summarize the data contained thereon?

A Exhibit Number Seven is the application for multiple completion filed on December 1st, 1980, on the subject well. The upper zone is the Wolfcamp at perforations I previously referred to. It is an oil reservoir and its condition was flowing method of production.

The lower zone is also flowing and it's the Morrow zone and it is a gas zone.

Q Will you now review the data contained on Exhibit Number Eight for Mr. Stamets?

A Exhibit Number Eight is a wellbore

PBR.

The Wolfcamp perforations are as indicated as are the Morrow perforations down below the lower PBR.

- Does this method of completion conform with good engineering practices and insure the separation of the zones involved?
 - Yes, it does.
- In your opinion is the proposed completion the best method of completing the well so as to produce both the Wolfcamp and the Morrow in one well?
 - Yes, it is.
- Will you now refer to Applicant's Exhibit Nine-A and review this for Mr. Stamets?
- Exhibit Number Nine-A is the bottom hole pressure data on the Wolfcamp zone, that is the upper zone. The pressure bombs were set at 10,750 feet and the bottom hole pressures were calculated at the midpoint of the perforations at 11,143 feet. This was run on 11-1-80 and the test was completed on 11-3.

The initial pressure of the surface tubing pressure was 3020 psi. The estimated datum pressure was 5890 psi.

A 4-point test was run as if it were a

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gas well. At this time we felt there was a chance that it might be a retrograde condensate so we wanted to treat it as that, since it did want to flow, and we flowed the well for four hours at four rates and ran bombs back to 10,750 and shut it in for a 68-hour buildup.

The last two pages are the static surveys run immediately prior to the flow and the one run immediately after the 69-hour buildup.

Q Will you now refer to Applicant's Exhibit
Nine-B and review this?

A. Exhibit Nine-B is similar data except it's on the Morrow formation, Morrow zone, that is the lower perforations.

It was started on 10-31 and completed also on 11-3 with the 4-point test data indicating the initial reservoir pressure was 7551 psi at 13,124 feet, which calculated to be the midpoint of the perforations, and that is an estimated bottom hole pressure, because we were only able to run the bombs to 11,371 feet.

And this was a 70-hour shutin. At the end of 70 hours the bottom hole pressure was estimated to be 7584 psi.

And the last page of this is the static survey run after the 70-hour shutin.

Q Will you now refer to HNG Exhibit Nine-C and review this for Mr. Stamets?

Lexhibit Nine-C is the Commission Form C-105 for well completions report and log on the subject well in the Wolfcamp zone, date of completion being 10-31-80 for the Wolfcamp perforations, showing that they were treated with 3000 gallons of 15 percent spearhead acid.

This test, what we did is we converted the 4-hour flow to a 24-hour flow to get the initial test and it calculated for a 24-hour rate, an average rate of 407.58 barrels of oil a day, 505.6 Mcf gas per day, no water. Gas/oil ratio of 1,240, oil gravity 46.9 degree API, at an average flowing tubing pressure of 2850 psi.

Q. Will you now refer to Exhibit Nine-D and review this for Mr. Stamets?

A. Exhibit Nine-D is the multipoint back pressure test for the gas zone of the Morrow run also on 10-31-80 as the completion date, and the calculated AOF on this was 17,849 Mcfd at 15.025 psia.

During the test 10.59 barrels of oil was also produced, that is, barrels of condensate.

The second page is the plat, the graph of the back pressure curve, and the back completion is the Form C-105 well completion report and log for the Morrow zone

(Thereupon a brief recess was taken.)

E?

MR. STAMETS: Okay, thank you very much. I appreciate your indulgence.

You may proceed.

A. Let's see we were at the packer setting report for the upper PBR set at 10,782; also the form following that is the packer setting report for the 4-inch PBR, set at 11,332, approximately.

Also attached is the shutin surveys, one run on 12-17-80, which is 50-day shutin time, and this was on the Morrow long string, and it came up with an estimated pressure of 7556 psi at 13,124 feet.

The last static survey is on the Wolf-camp zone, run on the same date, which showed a 16-day -let's see, I believe that's incorrect -- it's probably 48-day shutin, and that was at 11,143 feet, estimated bottom hole pressure of 5878 psi.

Q Mr. Holm, will you now refer to Exhibit

10 and review this for the Examiner?

MR. STAMETS: Could I ask a question while we're on Number Nine? Which one of the charts reflects the flow test number two?

A. This is on the packer leakage test, Nine

MR. STAMETS: Yes.

1	25	
2	A. Let me see, the first chart was run	
3	12-17 to the 18th, was the shutin of both zones.	
4	The following chart is on the flow of	
5	the Morrow from 12-18 to 12-19.	
6	The third chart is 12-19 to	
7	MR. STAMETS: Okay.	
8	A 12-20, which is flow of the Wolfcamp,	
9	and then the last one being shutin in both zones.	
10	MR. STAMETS: Thank you.	
11	Q. Will you now review Exhibit Ten?	
12	A. Exhibit Number Ten is a summary of the	
13	reservoir data calculated from the bottom hole pressure sur-	
14	veys. In the Wolfcamp zone the permeability was calculated	
15	to be 9.6 millidarcies; flow efficiency, 397.1 millidarcy	
16	feet per centipoise; and a skin factor of -4.7.	
17	In the Morrow zone the data was not det-	
18	ermined since the buildup data were unreliable due to an ap-	
19	parent changing liquid level and fluid gradient between the	
20	pressure bombs and the midpoint of the perforations, that is	
21	datum.	
22	Q. Mr. Holm, is HNG requesting a discovery	
23	allowable for the subject well?	
24	A. Yes, it is.	
25	Q Will you refer to Exhibit Eleven and re-	

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All the operators owning leases within one mile of this well were sent copies of this form.

And also attached to this is the Form C-104 showing the Western Crude Oil as being the purchaser

of both the condensate and the oil and Texaco being the purchaser of the dry gas and the casinghead gas, showing both the Morrow and the Wolfcamp.

Will you now refer to your fluid analysis, which is marked for identification as Exhibit Number Twelve, and review the data contained thereon?

Analytical Laboratories in Odessa, Texas, run a recombination of the liquid and gaseous phases of the fluids produced by the Wolfcamp zone, and this recombination was done at average reservoir conditions of 5890 psi at 164 degrees Fahrenheit.

Both the summation of KM and M/K was found to be greater than the summation of M; therefor, the reservoir is part liquid and part vapor phase. That is, in the reservoir you have oil and free gas.

Also attached are the oil sample analysis and the gas sample analysis.

Q Mr. Holm, will you now refer to Exhibit
Thirteen and review this for Mr. Stamets?

A. To show the difference between HNG's well and the Getty State 36 No. 1 retrograde condensate reservoir fluids, we drew a Wolfcamp fence diagram of the gas sample and the oil sample with the Mole percent increasing from the centerline, zero, both to a left and to the right,

the gas sample being on the left, oil sample being on the right.

The HNG gas was found to have a BTU rating of 1194 as compared to 1224 for the Getty well. Both -- both wells had very similar gas.

The triangle represents the Getty Well data; the circle represents HNG's well data.

On the righthand side there's a significant difference in the composition of the oil, as indicated in -- as you come down through the methanes, ethanes, and propanes. The HNG well has significantly lower lighter ends and has more of the heavier ends percentagewise, indicating that it is definitely an oil as compared to the condensate.

Q Mr. Holm, in your opinion is the Wolf-camp zone in the San Simon 6 No. 1 Well a new Wolfcamp Pool that is not being produced by any other well in the area?

A Yes, sir, it is.

On In your opinion will granting this application be in the best interest of conservation, the prevention of waste, and the protection of correlative rights?

A. Yes.

Q. Were Exhibits Six through Eight, Nine-A, B, C, D, and E, and Ten through Thirteen prepared by you or under your direction and supervision?

	1	29
	2	A. Yes, they were.
	3	MR. CARR: At this time, Mr. Stamets,
	4	we would offer these exhibits into evidence.
	5	MR. STAMBUTS: These exhibits will be ad-
	6	mitted.
	7	MR. CARR: I have nothing further of Mr.
A	8	Holm on direct.
	9	MR. STAMETS: Are there questions of this
	10	witness? He may be excused.
	11	MR. CARR: Mr. Stamets, we will not call
	12	an additional witness.
	13	This concludes our direct case.
	14	MR. STAMETS: Is there anything further,
9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	15	then, in this case?
	16	The case will be taken under advisement.
	17	
	18	(Hearing concluded.)
	19	
	20	
	21	
	22	
	23	
	24	
	25	

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

CERTIFICATE

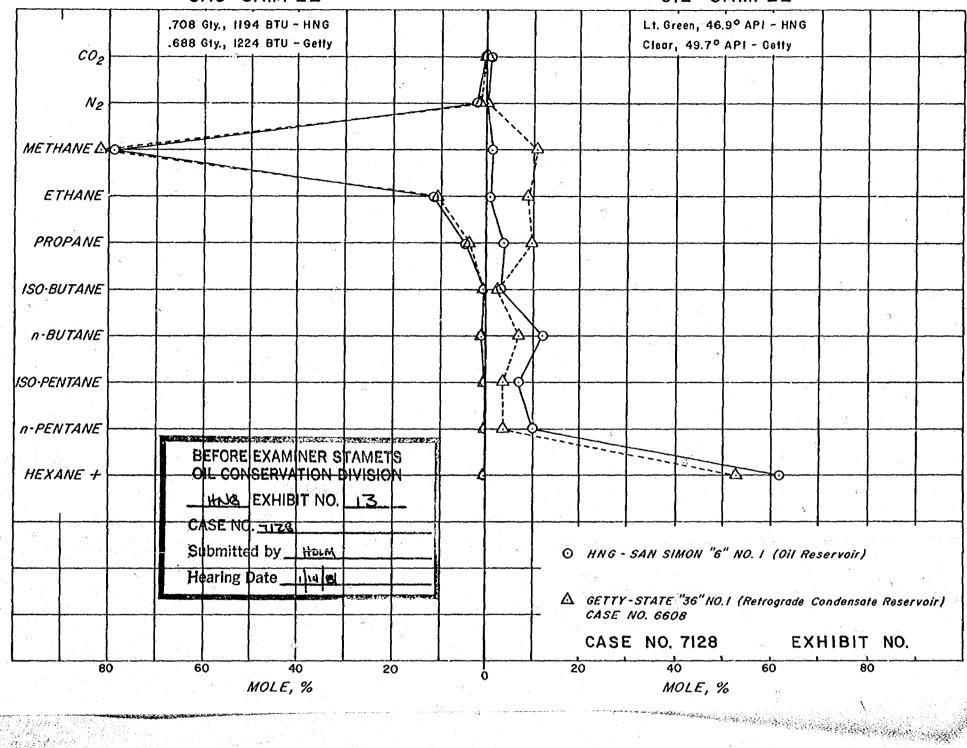
I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Swy W. Boyd C.S.R.

I do hereby carlify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No.

__, Examiner

Oil Conservation Division



& SOLAR ENERGY TESTING

WEST UNIVERSITY AND WESTOVER STREET
THERMAL SCIENTIFIC BUILDING
P. O. BOX 6771
ODESSA, TEXAS 79762
PHONE 337-4744

HNG Oil Company

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SanSimon 6 # 1 (Wolfcamp)

RECOMBINATION OF GAS, MOLE & RECOMBINATION OF LIQUID, LIQ. VOL. & MOLE & 2.33 COMPONENT LIQUID VOLUME & NITROGEN 0.93 METHANE 73.06 60.34 CARBON DIOXIDE 0.69 0.57 ETHANE 11.23 13.96 PROPANE 4.64 6.24 ISO-BUTANE .67 1.07 NORMAL BUTANE 1.91 2.94 .72 ISO-PENTANE 1.28 NORMAL PENTANE .97 1.71 HEXANE PLUS 3.78 10.96 TOTAL 100.00 100.00

CALCULATIONS OF THE RECOMBINATION OF THE GAS AND LIQUID WERE MADE FROM THE ASSUMED AVERAGE RESERVOIR CONDITIONS OF 5890# AT 164 DEG F.

 $\Sigma \text{ KM} = 131.79$

 $\Sigma M/K = 116.22$

 $\Sigma M = 100$

 Σ KM AND M/K IS GREATER THAN M, THEREFORE THE RESERVOIR IS PART LIQUID AND PART VAPOR PHASE.

JARREL SERVICES INC.

A.O. SMITH

BOX 1654

ANCHOR HOLM

P.O. BOX 2267

MIDLAND, TX 79701

H

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

HNG EXHIBIT NO. 12

CASE NO. 7178

Submitted by Houm

Hearing Date 1/14/81

CASE NO. 7128

EXHIBIT NO. 12

MOBILE ANALYTICAL LAB, INC.

P.O. BOX 6771

ODESSA, TEXAS

11/10/80

LAB #2031

San Simon 6 #1 (Wolfcamp)

HOUSTON NATURAL GAS OIL SAMPLE

FRACTIONAL ANALYSIS

COMPONENT	LIQ. VOL. %	MOL %	WT. %
METHANE	0.05	0.12	0.02
CARBON DIOXIDE	0.01	0.02	0.02
ETHANE	0.51	0.75	0.26
PROPANE	3.86	5.54	2.85
ISO-BUTANE	2.44	2.95	2.01
NORMAL BUTANE	9.62	12.05	8.20
ISO-PENTANE	6.39	6.89	5.82
NORMAL PENTANE	9.13	9.95	8.39
HEXANE +	67.99	61.73	72.43
TOTALS	100.00	100.00	100.00
SPECIFIC GRAVITY 0.657 CU. FT. / GAL. 25.39 C1 / C2 RATIO 9.80		VAPOR PRESSURE # / GAL. # / GAL. C5+	5.477
COMPOSITION OF C6+		MOLECULAR WT. 15 SPECIFIC GRAVITY GAL/LB MOL. 22.5 CU FT/GALLON 16.	7 .8251 55

MOBILE ANALYTICAL LAB., INC.

P.O. BOX 6771

ODESSA, TEXAS

11/10/80

LAB # 2031

San Simon 6 #1 (Wolfcamp)

HOUSTON NATURAL GAS

FRACTIONAL ANALYSIS

COMPONENT	MOLE %	GPM
NITROGEN	1.88	0,000
METHANE	78.93	0.000
CARBON DIOXIDE	0.81	0.000
ETHANE	11.58	3.078
PROPANE	4.58	1.253
ISO-BUTANE	0.48	0.156
NORMAL BUTANE	1.04	0.326
ISO-PENTANE	0.19	0.069
NORMAL PENTANE	0.20	0.072
HEXANE PLUS	0.31	0.131
TOTALS	100.00	5.085
and the second s		
SPECIFIC GRAVITY GROSS BTU -DRY DTU		APOR PRESSURE 0.340 APOR PRESSURE 0.408

HNG OIL COMPANY - SAN SIMON '6' #1

SUMMARY OF RESERVOIR DATA

BOTTOM-HOLE PRESSURE SURVEY

WOLFCAMP ZONE:

PERMEABILITY, k = 9.6 md FLOW EFFICIENCY, kh/µ = 397.1 md-ft./cp SKIN FACTOR, S = -4.7

MORROW ZONE:

Data not determined since buildup data were unreliable due to an apparent changing liquid level and fluid gradient between the pressure bombs and the midpoint of perforations (datum).

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
HUG EXHIBIT NO. 10
CASE NO. 7178
Submitted by Holy
Hearing Date 1 14 81

NNG 011 Company Anchor E. Holm/sh January 14, 1981

CASE NO. 7128

EXHIBIT NO. 10

OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO 87501

Form C-109 Revised 10-1-78

APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

[Figeralia	Transfer of the second
HNG 011 Company	P.O. Box 2267, Midland, Texas 79702
San Simon 6 State Com	1 Lea
Voll Letter H 1980	Feet from The North Line and 660 Feet
t. San Simon (Wolfoam)	
tt. 1 c	(Wolfcamp) 1, Ojo Chiso, East (Wolfcamp)
Wolfcamp 11 132-154! All "All: rivid of its revery" Previously Fitted If Yes, Give Coile of for This hold in this Fool?	Filing Date Well was Spudded Date Compl. regar to frod.
Total Depth Plugged Back Depth Cas	8-10-80 10-31-80 Tubing Depth Elevation (Gr., DF, RKB, ET, etc.)
13,300 13,2175 13,3 Cil Well Fotential (Fest to be taken only ofter all load oil has been re	300' 10,782' 3628.8' GR
	4 Hours; 0 Bbls Water Per Day Based On 0 Bbls
In 4 Houte; Gas Production During Tests 505_6	MCF; Gas-Oll 1240 Method Of flowing Cht. 9/64"
NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and pre- ral or vertical separation):	sent oil or gas producing areas and sones whether this discovery is based on hori
Pool Name of Producing Pormation	
East Gramma Ridge Morrow Herizontal Distance and Direction from Subject Discovery Well to the Recips Well in this Pool 7/20 feet Monthstone	Veilled Distance from Subject Discovery Zone to Producting Interval this Pool
7720 feet Northwest	1792' (1763.5' subsea)
NEAREST COMPARABLE PRODUCTION (Includes pass and present of Pool Name	Top of Pay Bottom of Pay Currently Freducing?
Gramma Ridge (Wolfcamp) Gas	11320' 11 335' Vac
Hiorizontal Distance and Direction from Subject Discovery Well to the a 9810 feet Northwest	.carest Well in this Comparable Pool
Is "County Deep" Discovery Allowable II Yes, Give Name, Location, Requested for Subject Discovery Weil?	, and Depth of Next Deepest Oil Production in this County .
No	
	Il Such Formations
Multiple Completion? Requested for other Zone(s)? Yes No	
IST ALL OPERATORS OWNING LEASES WITHIN ONE HILE OF THIS	S-WELL (Attach additional sheet if necessary) ADDRESS
	Box 1700, Midland, Texas 79702
Exxon Company USA	The and the second
Phillips Petroleum	Phillips Bldg. Odessa, Texas 79760
Northern Nat'l Gas Co.	403 Wall Towers West, Midland, Texas 79701
Texaco, Inc.	P.O. Box 3109, Midland, Texas 79702
Amerada Hess Corp.	2207 W. Industrial, Midland, Texas 79701
Getty 0il Company	Box 1231, Midland, Texas 79702
Amoco Prod. Co.	P.O. Box 1725, Midland, Texas 79702
, and the second second second second second second second second second second second second second second sec	y of this amilication. Any of said operators who intends to object to the designation
tack evidence that all of the above approtose have been furnished a cap the entities well as a discarrery well, eligible to receive a discavery of vision of such intent in writing within ten days after receiving a capy of	of this opplication.
the subject well as a discovery well, eligible to receive a discovery of	of this opplication. CASE No. 7128
the subject well as a discovery well, eligible to receive a discovery of vision of such intent in writing within ten days after receiving a copy of the contract of the contra	of this opplication.

Mellon Betty A. Gildon Regulatory Clerk

CERTIFICATE OF SERVICE

I hereby certify that I have this day mailed to all operators owning leases within on mile of this well, postage pre-paid, copies of the attached OCD Form C-109 of HNG Oil Company in accordance with the requirements of the Oil Conservation Division Form C-109.

Dated at Midland, Texas, this 7 day of January, 1981.

Betty A. Gildon Regulatory Clark

HNG OIL COMPANY

,	t do of contra a con-		· · · · · · · · · · · · · · · · · · ·	
,	NO. OF COPIES R. CIVLS	- .		
	DISTRIBUTION	NEW MEXICO OIL	CONSERVATION COMMISSION	Pprm C-104
	ANTA FE	REQUES	T FOR ALLOWABLE	" Supersedes Old C-104 and Co
	TILE	_	AND	Effective 1-1-65
	s.G.s.	_ AUTHORIZATION TO TR	RANSPORT OIL AND NATURAL	GAS
	LAND OFFICE		;	
	THANSPORTER OIL	_		
	GAS	_]		
	OPERATOR	7		
i.	PRORATION OFFICE	7	÷	
	Operator			
	HNG 011 Company		· -	
	Address			
	P.O. Boy 2267' Midlan	d Toyas 79702		
	P.O. Box 2267, Midlan Reason(s) for liling (Check proper bo	x)	Other (Please explain)	
	New Well	Change In Transporter of:		
	Recompletion	OII Dry C	ias [i	
	Change in Ownership	一	ensate	•
	If change of ownership give name			•
	and address of previous owner			
	DESCRIPTION OF HERE			
11.	DESCRIPTION OF WELL AND	LEASE Well No.; Pool Name, Including	Formation Kind of Lea	
				1 (2003).1:
	San Simon 6 State Com	. 1 Und. Morrow	Sidie, reder	dor Fee State LG 3609
	Unit Letter H : 198	O Feet From The North Li	ne and 660 Feet From	The East
	Line of Section 6 To	waship 22S Range 3	5 E , NMPM, Lea	County
	nganing sa katalog at terminang sa katalog at terminang sa katalog at terminang sa katalog at terminang sa kat Katalog at terminang sa katalog at terminang sa katalog at terminang sa katalog at terminang sa katalog at ter			
Ш.		TER OF OIL AND NATURAL G.		
	Name of Authorized Transporter of Oil	or Condensate X	Address (Give address to which appro	The state of the s
	Western Crude Oil, In	c	Box 1142, Midland, Te	
	Name of Authorized Transporter of Ca	singhead Gas or Dry GasX	Address (Give address to which appro	
	Texaco, Inc.		Box 3109, Midland, Te	xas 79702
	If well produces oil or liquids,	Unit Sec. Twp. P.ge.	Is gas actually connected? W	nen .
	give location of tanks.	! H ! 6 !22S !35E	No	(
	If this and online to assume that out	th that from any other lease or pool,	give commissing order numbers	28
	COMPLETION DATA	th that from any other lease or poor,	give comminging order number.	
		Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'y
	Designate Type of Completic	on - (X)	X	
	Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
	8-10-80	10-31-80	13,3001	13,217'
	Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oll/Gas Pay	Tubing Depth
			13,110'	10,782
	3628.8 GR	Morrow	1 13,110	Depth Casing Shoe
				11,014
	13,110 - 13,117			11,014
	<u> </u>		CEMENTING RECORD	
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
	17-1/2"	13-3/8"	1085	1450 C1C
	12-1/4"	9-5/8"	5687'	500 C1C & 2950 lite 400 lite & 350 C1H
	8-1/2"	7"	11,014'	
. 1		2-3/8" Tbg.	10,782 W/PBR at 11,33	32
ν.	TEST DATA AND REQUEST FO		fer recovery of total volume of load oil	and must be equal to or exceed top allow
	OIL WELL	able for this de	pth or be for full 24 hours)	
i	Date First New Oil Run To Tanks	Date of Tees	Producing Method (Flow, pump, gas li)	(i, etc.)
l				
. }	Length of Test	Tubing Pressure	Casing Pressure	Choke Size
			• •	
}	Actual Prod. During Test	Oil-Bbls.	Water - Bbls.	Gas-MCF
ſ	Notice Programme 19			
ſ			F	

GAS WELL	and the second s		
Actual Prod. Test-MCF/D	Length of Test	Bbis. Condensate/MMCF	Gravity of Condensate
2300	24 hours	30	56.0
Testing Method (pitot, back pr.)	Tubing Preseure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Back pressure	5668	Packer	10/64

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been compiled with and that the information given above is true and complete to the best of my knowledge and belief.

Bouna.	\mathcal{L}	100	ס	. 4. 4	A	N 1 dor	
0		(Siepaiwe	اهد <u> </u>	SLLY	.A\	TTMDI	
Regulatory (lerk	(Title)					

(Date)

OIL CONSERVATION COMMISSION

APPROVED 87.

This form is to be filed in compliance with MULE 1104.

If this is a request for allowable for a newly drilled or despensed well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

HO. OF COPIES RECTIVED	•		
DISTRIBUTION	T-		
SANTÁ FE		L CONSERVATION COMMISSION ST FOR ALLOWABLE	Form C-104 Supersedes Ald C-101 and
IF ILU		AND	Effective 1-1-65
LAND OFFICE	AUTHORIZATION TO T	TRANSPORT OIL AND NATURAL	- GAS
INANSPORTER OIL			
GAS			
PROPATION OFFICE			N. Committee of the Com
Operator	1		
HNG Oil Company			
P.O. Box 2267, Mic	lland, Texas 79702		
Reason(s) for filing (Check prope		Other (Please explain)	
New Well Recompletion	Change in Transporter of: Oil Dry	Gas	
Change in Ownership	} 	densate	
If change of auracehin sing as			
If change of ownership give na and address of previous owner	me		
DESCRIPTION OF WELL A	ND LEASE	· ·	
Lease Name	Well No. Pool Name, Including	· · · · · · · · · · · · · · · · · · ·	LGw893&
San Simon 6 State	Com. 1 Und. Wolfcar	mp 3,016, Fede	State LG-3609
Unit Letter H :	1980 Feet From The North t	Line and 660 Feet From	TheEast
Line of Section 6	Township 22S Range	35E , NMPM, Lea	Count
DESIGNATION OF PRANCE	PORTER OF OIL AND NATURAL (ji PAS	
Name of Authorized Transporter of		Address (Give address to which appr	oved copy of this form is to be sent)
Western Crude 011, Name of Authorited Transporter of	Inc. I Casinghed Gas or Dry Gas	Box 1142, Midland, Te	exas 79701 oved copy of this form is to be sent)
Texaco, Inc.		Box 3109, Midland, Te	
If well produces oil or liquide, give location of lanks.	Unit Sec. Twp. Rge.	is gas actually connected? W	hen
	H 6 1 225 35E	No.	·
COMPLETION DATA	d with that from any other lease or pool		
Designate Type of Comp	ction - (X)	New Well Workover Deepen	Plug Back Same Restv. Diff, Res
Date Spuddod	Date Compl. Ready to Pred.	Total Dapth	P.B.T.D.
8-10-80	10-31-80	13,300!	13,217'
Elevations (DF, RKB, RT, GR, et.		Top Oll/Gas Pay	Tubing Depth
3628.81 GR Perforations	Wolfcamp	11,132'	10, 782 Depth Casing Shoe
11,132' - 11,154'			11,014'
10.500		O CEMENTING RECORD	SACKS CEMENT
HOLE SIZE	CASING & TUBING SIZE	DEFIN SET	
17-1/2 11	13_3/8"	10851	
17-½ " 12-½"	13-3/8" 9-5/8"	1085'	1450 C1C 500 C1C & 2950 lite
<i></i>	9-5/8" 7"	5687' 11,014'	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H
17-3 12-½" 8-1/2"	9-5/8" 7" 2-3/8" Tubing	5687' 11,014' 10,782' W/PBR at 10,78	1450 ClC 500 ClC & 2950 lite 400 lite & 350 ClH
12-½" 8-1/2" TEST DATA AND REQUEST OU, WELL	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours)	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 2i and must be equal to or exceed top allo
12-½" 8-1/2" TEST DATA AND REQUEST OUL WELL Date First New Cil Run To Tanks	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours) Producing Mothod (Flow, pump, gas li)	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 2i and must be equal to or exceed top allo
12-½" 8-1/2" TEST DATA AND REQUEST OU, WELL	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours)	1450 ClC 500 ClC & 2950 lite 400 lite & 350 ClH 21 and must be equal to or exceed top allo
12-½" 8-1/2" TEST DATA AND REQUEST OIL WELL Date First New Cil Run To Tanks 11-1-80 Length of Test 4 hours	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this description of Test 11-1-80 Tubing Proseure 2850	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours) Producing Method (Flow, pump, gas ii) Flowing Casing Pressure	1450 CIC 500 CIC & 2950 lite 400 lite & 350 CIH 21 and must be equal to at exceed top allo (t, etc.) Choke Size 9/64"
12-½" 8-1/2" TEST DATA AND REQUEST OIL, WELL, Date First New Cil Run To Tanks 11-1-80 Length of Test 4 hours Actual Prod. During Test	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d Date of Test 11-1-80 Tubing Proseure 2850 Oil-Bale.	5687' 11,014' 10,782' W/PBR at 10,78; after recovery of total volume of load oil lepth or be for full 24 hours Producing Mothed (Flow, pump, gas lift) Flowing	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 21 and must be equal to or exceed top allo (fi. etc.) Choke Size 9/64!! Gas-MCF
17-3 12-½" 8-1/2" TEST DATA AND REQUEST OIL, WELL: Date First New Cit Bun To Tanks 11-1-80 Length of Test 4 hours	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this description of Test 11-1-80 Tubing Proseure 2850	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours) Producing Method (Flow, pump, gas ii) Flowing Casing Pressure	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 211 and must be equal to or exceed top allow (t, etc.) Choke Size 9/64"
17-3 12-½" 8-1/2" TEST DATA AND REQUEST OIL, WELL, Date First New Cil Run To Tanks 11-1-80 Longth of Test 4 hours Actual Prod. During Test 67.93 bb1s	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d Date of Test 11-1-80 Tubing Pressure 2850 Oil-Bola. 67.93	5687' 11,014' 10,782' W/PBR at 10,78; after recovery of total volume of load oil lepth or be for full 24 hours) Producing Mothed (Flow, pump, gas liferation of the control	1450 ClC 500 ClC & 2950 lite 400 lite & 350 ClH 21 and must be equal to or exceed top allo (fi. etc.) Choke Size 9/64!! Gas-MCF 219.2
12-½" 8-1/2" TEST DATA AND REQUEST OIL, WELL. Date First New Cil Run To Tanks 11-1-80 Length of Test 4 hours Actual Prod. During Test	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d Date of Test 11-1-80 Tubing Proseure 2850 Oil-Bale.	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours) Producing Method (Flow, pump, gas ii) Flowing Casing Pressure	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 21 and must be equal to or exceed top allo (fi. etc.) Choke Size 9/64!! Gas-MCF
12-½" 8-1/2" TEST DATA AND REQUEST OU, WELL. Date First New Cit Run To Tanks 11-1-80 Length of Test 4 hours Actual Prod. During Test 67.93 bbls GAS WELL Actual Prod. Test-MCF/D	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this d Date of Test 11-1-80 Tubing Pressure 2850 Oil-Bola. 67.93	5687' 11,014' 10,782' W/PBR at 10,78; after recovery of total volume of load oil lepth or be for full 24 hours) Producing Mothed (Flow, pump, gas liferation of the control	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 21 and must be equal to or exceed top allo (fi. etc.) Choke Size 9/64!! Gas-MCF 219.2
12-½" 8-1/2" TEST DATA AND REQUEST OIL, WELL, Date First New Cil Run To Tanks 11-1-80 Length of Test 4 hours Actual Prod. During Teet 67.93 bbls	9-5/8" 7" 2-3/8" Tubing FOR ALLOWABLE (Test must be able for this delete for t	5687' 11,014' 10,782' W/PBR at 10,78: ofter recovery of total volume of load oil lepth or be for full 24 hours) Producing Method (Flow, pump, gas li) Flowing Casing Pressure Water-Bble. 0 Bble. Condensate/MMCF Casing Pressure (6hut-in)	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H 2i and must be equal to or exceed top allo (t, etc.) Choke Size 9/64!! Gas. MCF 219.2 Gravity of Condensate

Regulatory Clerk (Title)

(Dute)

This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepene well, this form must be recompanied by a tabulation of the deviation taken on the well in accordance with RULE 111.

All sections of thin form must be filled out complutely for allowable on new and recompluted Walls.

Fill out only Sections 1, II, III, and VI for changes of owner well name or number, or transporter or other such change of condition

Separate Forms C-104 must be filled for each pool in multipl

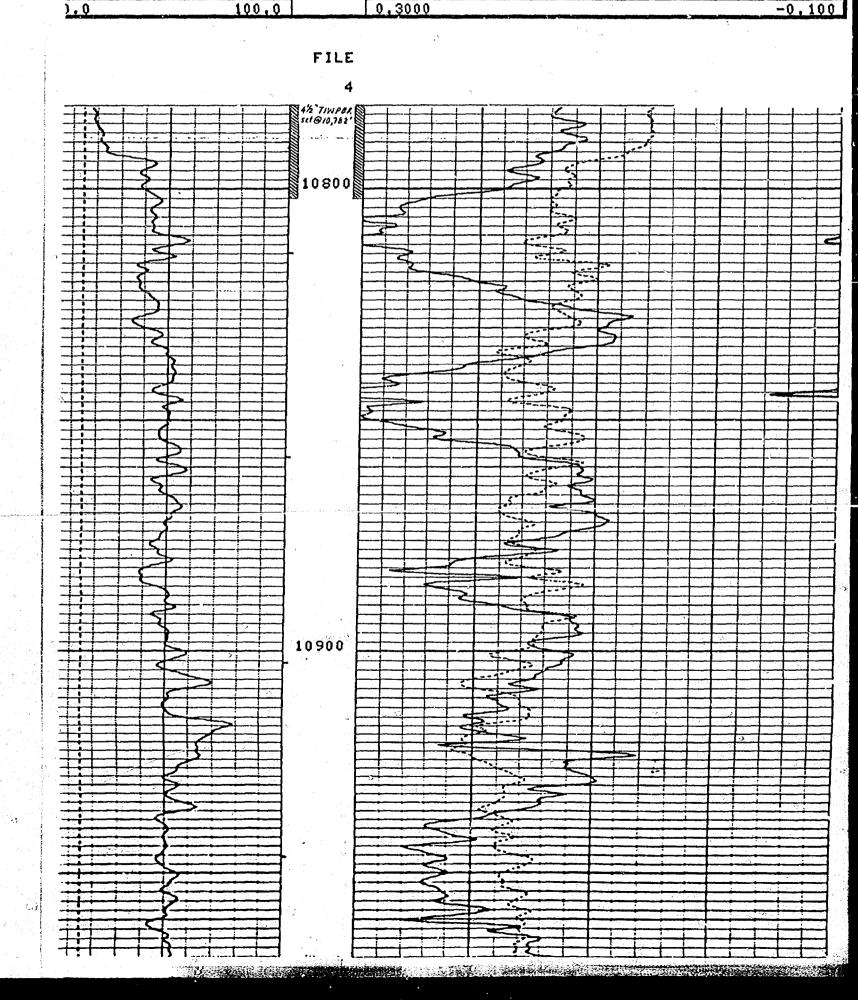
Trimesized by [CHERRYHOMES] CHERRYHOMES]	PIEUMANN	S075 HOBBS 8185	ec. Temp. 156 .F 172 .F	logger on Bottom 11145	0100		Rat Rac M	(8 @ 11 7. @)	@ Meas, lemp. 08 @ 79 . F 084 @ 89 . F @ F	2. (0 80 1 8 0) 4. 34 (0 400 1 18 0) 80 au	ce of Sample PIT PIT	8.5 mi 9.0 20 mi	8.5 28 10.9	id in Hole WATER		86601	9 5/8@ 5675 7 @ 11016 @		06601	10992	Depth—Driller 11014 13241	Run No. ONE	3-3-00	10.	G.I	K. B.	8. 21 ft. Above Perm Detrin	Permanent Datum; G.L. ; Elev. 3629 Elev. K.B. 3650		## W - C	OM	A J SERIAL NO. ISEC. TWP. BANGC	NI	7			I.	SI OI COUNTY I FA CTATE NEW	MO 1 L		MO SIMON STATE "6" COM. 11				COMPANY FING OIL COMPANY						がは、「一」というでは、これには、これには、これには、これには、これには、これには、これには、これに	ができた。		はいいでは、これのことには、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これで
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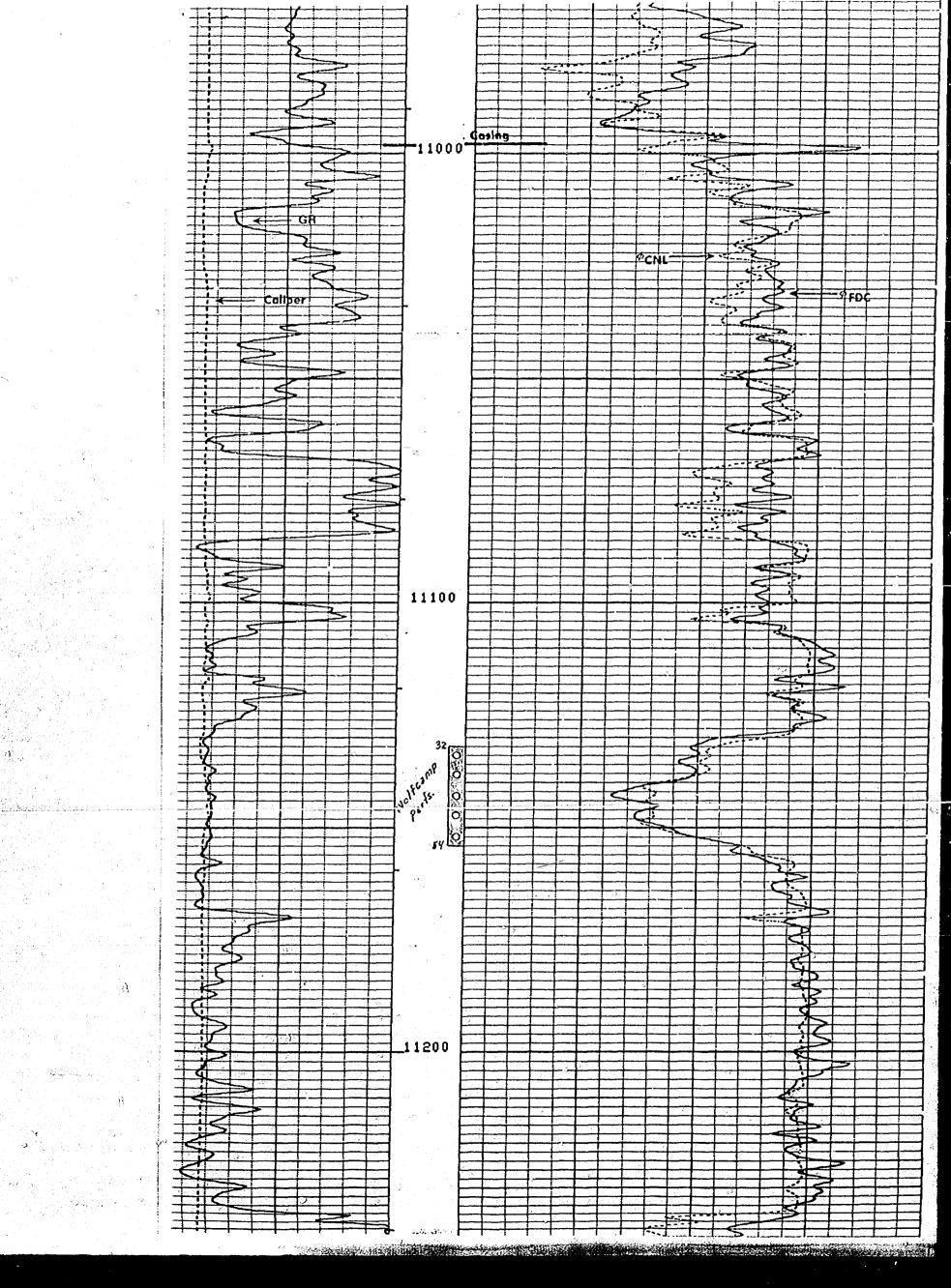
-0.100 RHDR(G/C3) CASE NO. 7128

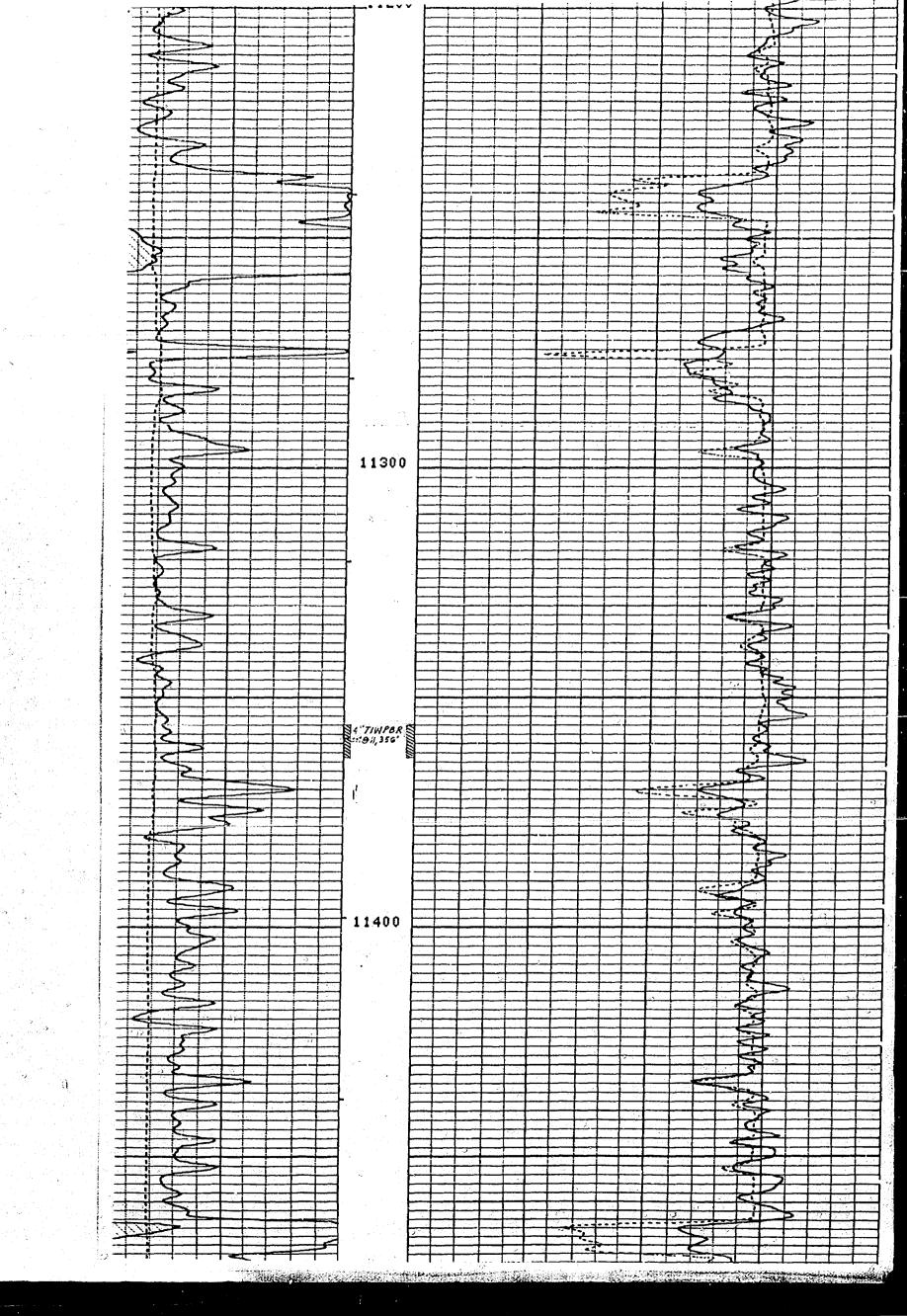
EXHIBIT NO. 6

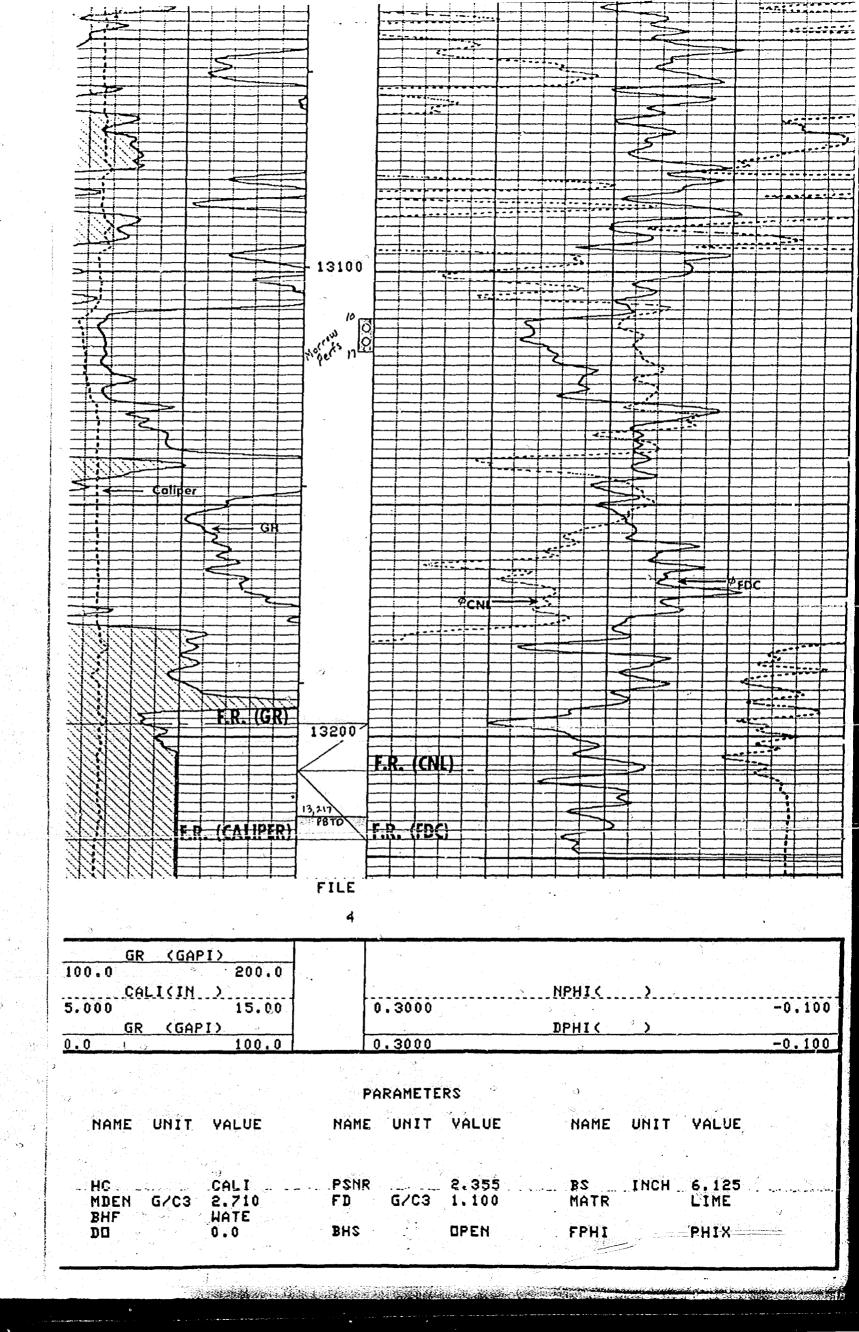
PARAMETERS

NAME	TINU	VALUE	NAM	E UNIT	VALUE	NAME	TINU	VALUE	
HC MDEN	G/C3	CALI 2.710	PSNI FD	R G/03	2.355 1.100	BS Matr	INCH	6.125 LIME	
BHF DO		WATE 0.0	BHS		OPEN	FPHI		PHIX	f
	(GAP		7			<u> </u>			
100.0	I TZTŇ	200.0	*			NDUT	,	5	
5.000	LI(IN	15.00	Run 2	0.3000		NPHIC			-0.100
GR	(GAP	1>				DPHIC	>		
		400 0		A AAAA					









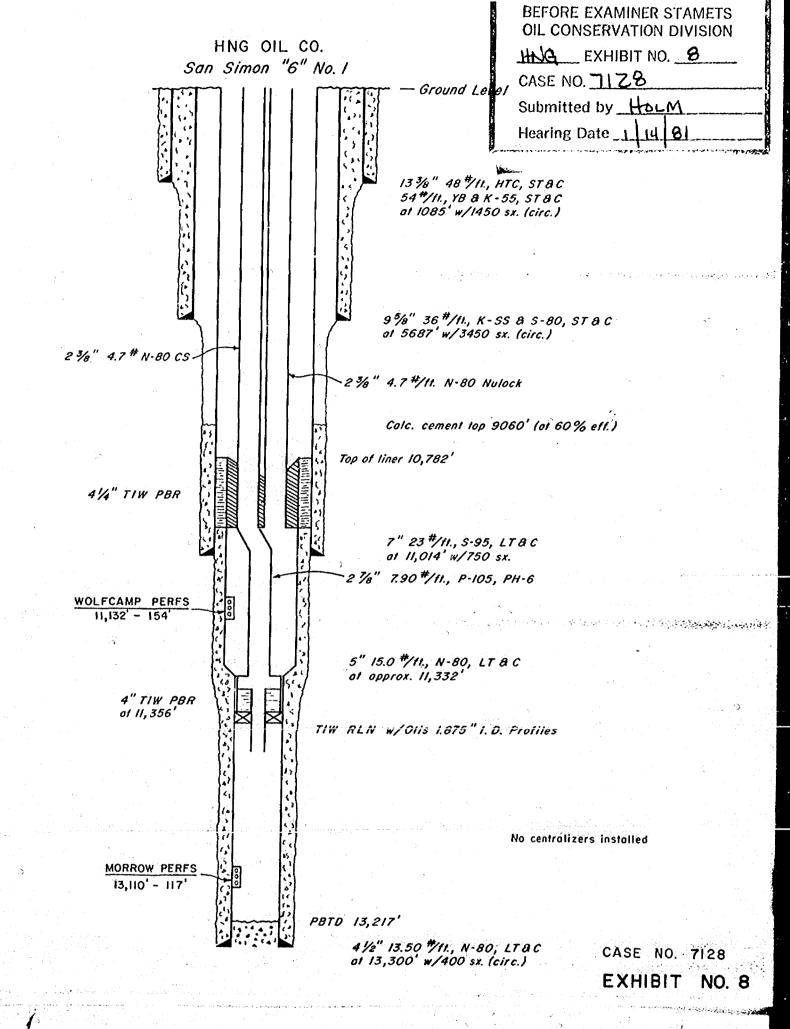
NEW MEXICO OIL CONSERVATION COMPION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

CASE No. 7128 EXHIBIT No.]

Operator	لىيىلىلى دەخلەردە ئىلىلىدىدە ئاسىلىلىدىدۇسىيەتلىنىنى ئوسلىدىدىنى بىرىلىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىد	County	·	Date	
HNG 011 Company		Lea		12-1-80	
Address		Lease		Well No.	
P.O. Box 2267, Midland, '			imon 6 State Co		
Location	tion 6	Township 225	+1	Ronge 35E	
		L	multiple pro-lining		
1. Has the New Mexico Oil Conservation zones within one mile of the subject	•	NO X	muttiple completion of	a well in these sam	e poors or in the sar
2. If answer is yes, identify one such in			- ; Operator Lease, an	d Wall No .	
4. It answer is yes, tuentity one such it	istance, Older No.		, Operator Lease, all	a well hou	
3. The following facts are submitted:	Upper		Intermediate		Lower
	Zone		Zone		Zone
a. Name of Pool and Formation	Und. Wolfcamp			Und. Mon	row
b. Top and Bottom of					: _
Pay Section (Perforations)	11,132' - 11,1	54'		13,110	- 13,117'
c. Type of production (Oil or Gas)	Oil_			Gas	
d. Method of Production				,	
(Flowing or Attificial Lift)	Flowing			Flowin	ıg`
4. The following are attached. (Please of	heck YES or NO)				
diameters and setting b. Plat showing the location of operators of all lea C. Waivers consenting to tors have been furnis A. Electrical location of the	is and location thereof, depth, location and typ tion of all wells on appses offsetting applicant such multiple complethed topies of the applicant the description of the applicant to the applic	, quantities used be of packers and plicant's lease, 's lease, tion from each of cation.*	and top of cement, per side door chokes, and su all offset wells on offs fset operator, or in lieu and bottoms of produci	forated intervals, tub ich other information set leases, and the tithercof, evidence t ng zones and interv	ing strings, including as may be pertinent and addresse that said offset operation in the said of perforation in
5. List all offset operators to the lease	The second secon	1,144	ith their correct mailing	g address.	
Exxon Company, USA, Box 1	700, Midland, Te	exas 79702			
Phillips Petroleum, Phill	ips Bldg., Odess	sa, Texas	79761	···	
Northern Nat'l. Gas Co.,	403 Wall Towers	West, Midl	and, Texas 7970)1	
Texaco, Inc., Box 3109, 1	idland, Texas	79702			·
	West Industria		Texas 79701		
		20200		4.4	
Gerry Oil Co., Box 1231,		79702			
were all operators listed in Item 5 ab		ed a copy of thi	s application? YES_X	II	answer is yes, give
date of such notificationDecemb	er 1, 1980	 •			
CERTIFICATE: I, the undersigned, s	tate that I am the Reg	gulatory Clo	erk of the	HNG Oil	
nder my supervision and direction and th	mpany), and that I am a at the facts stated there	iuthorized by said ein are true, com	cet and complete to the	best of my knowled	report was prepared
5. Amoco Prod. Co. P.O. Box 1725 Midland Tayas 79702		Bir	a dieson	Betty	A. Gildon

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



JARREL SERVICES, INC.

POST OFFICE BOX 165

PHONE 505 393-8396

HOBBS, NEW MEXICO 88240

EXHIBIT No. 9 9.

CASE No. 7128

COMPANY: HNG Oil Company

WELL: San Simon 6 State Com, No. 1

FIELD: Undesignated - Wolf Camp

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF WELL	TIME	ELASPE HRS.	D TIME MIN.	SURFACE PF			(-7493
1980				PLAIN .	TBG	CSG	11143	'PSIG
11/	Shut in 18 days. Run	_						
/	Static Gradient w/Ta		•	•	ye ne	13		
	Bombs & Set bombs @	naem			. *			
	10750'			*				
		10:30 AM	· - · ·		3020 DWT	Dua1	5890	
	Started 1st Rate	10:45	0	15	3020		5890	
	Finished 1st Rate	11:45	1	00	3017	1 <u>-</u>	5856	
	& Started 2nd Rate	3					0000	•
	Finished 2nd Rate	12:45	1	00	2997		5801	
	& Started 3rd Rate						0001	
	Finished 3rd Rate	1:45	1	00	2830	<u>.</u> ' ,	5759	
1.19	& Started 4th Rate						3733	
	Finished 4th Rate	2:45	1	00	2720		5674	
	& Fished bombs. Flowi	ng					္လ၁၀/4	
•	Run Bombs to 10750' &		100					
	Shut in for Buildup	4:00	1	. 15	2650			
	Shut in	4:30	1	30		. .	5603	
	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (5:00	1	00		·	5650	
	•	5:30	1	30	· -	-	5664	
	10	6:00	2	00		· . –	5688	
	ા છે.	6:30	2	30		•••	5705	
	• • • • • • • • • • • • • • • • • • •	7:00	3			-	5726	
		7:30	3				5736	The second section of the section of the sect
•	11	8:00	4	30	- -	-	5749	را و زرقع او الواهاي او . معراق او العام الواز الإدارة
	n .	8:30		00	-	- -	5760	
	11	9:00	4	30	-	-	5773	
	n n	- 1 25 MA	5	00	-	_	5787	
	10	9:30	5	30	- '.	_	5794	
	100	10:00	6	00	-	'. 🚤 .'	5804	
٠	11	10:30	6	30	-	_	5807	
/1	11	11:30	7	00			5578	
/2	u u	12:00	8	00	- ∧ 1	· _	5821	
7,2		1:00 AM	9	00	: : : : : : : : : : : : : : : : : :		5828	
	and the second of the second o	2:00	10	00	**		5835	
		3:00	11	00	_		5838	
	''	4:00	12	00	-	_	5838	
	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (6:00	14	00	-			O.
9.1		8:00	16	00	-		5845	
		10:00	18	00		- I .	5848	
		12:00	20	00	e <u>a</u> thalan Gellin	- 1 - 11- 11-	5848	
		2:00	22	00			5855	
	11	4:00	24	00	_		5855	
	ú	1.0097	26·		-	-	5855	
				00	-	- ,	5855	
	n en		28 70	00.	•	_	5855	**
			30	00	-	-	5855	- 1 · 1
		3:00 PM ;	35	00		_ 3	5855	
2	10 mg (10 mg)	8:00 4					~~~	

WELL: San Simon 6 Dete Com, No. 1
PAGE: 2

	FAUE: Z						
DATE	STATUS OF WELL	TIME	ELASPE HRS.	D TIME MIN.	SURFACE TBG	PRESSURE CSG	BHP @ (-7493) 11143'PSIG
11/3	Shut in	1:00 AM	45	00	ene		5864
22,0	0	6:00	50	00	-	-	5864
	o o	11:00	55	00	-	·	5864
	11	4:00 PM	60	00		+-	5864
	11	9:00	65	00			5864
	Fished Bombs & Run Static Gradient	12:00 N	68	00	2978	••	5864

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-8274

HOBBS, NEW MEXICO 88240

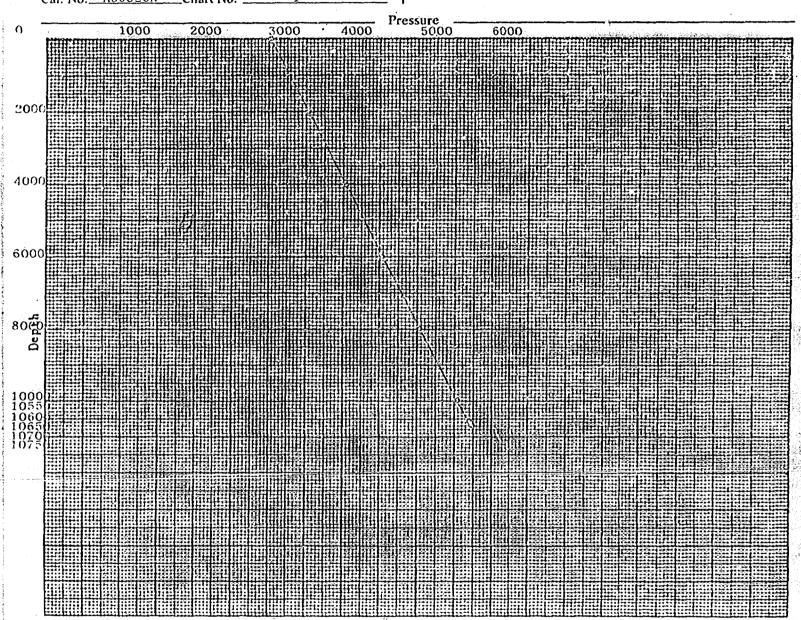
A. S.	
OPERATOR HNG Oil Com	pany
FIELD indesignate	d
FORMATION Wolf Camp	
LEASE San Simon 6 St	ate Com WELL #1
COUNTY Lea	
DATE November 1, 19	
Status Shut in	
Test Depth	
Time S. I. 18 days Last to	est date
Tub Pres. 3020 DWT BHP1	ast test
Cas. Pres. Dual BHP of	change
Elev. 3635 KB Fluid	top Surface
Datum (-7493)** Water	r top None
Temp. @ 154°F Run b	yJSI #16
• · · · · · · · · · · · · · · · · · · ·	No. 1

BOTTOM HOLE PRESSURE RECORD

Depth		Pressure		Gradient
0		3020		
2000		3517		.249
4000		4023		.253
6000		4529		.253
8000		5039		,255
10000		5549		.255
10550		5703		.280
10600		5718		.300
10650		5734		.320
10700		5750		.320
10750		5766		.520
11143	(~7493)	5890 *	ii ii	(.520)

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-6274

HOBBS, NEW MEXICO 89240

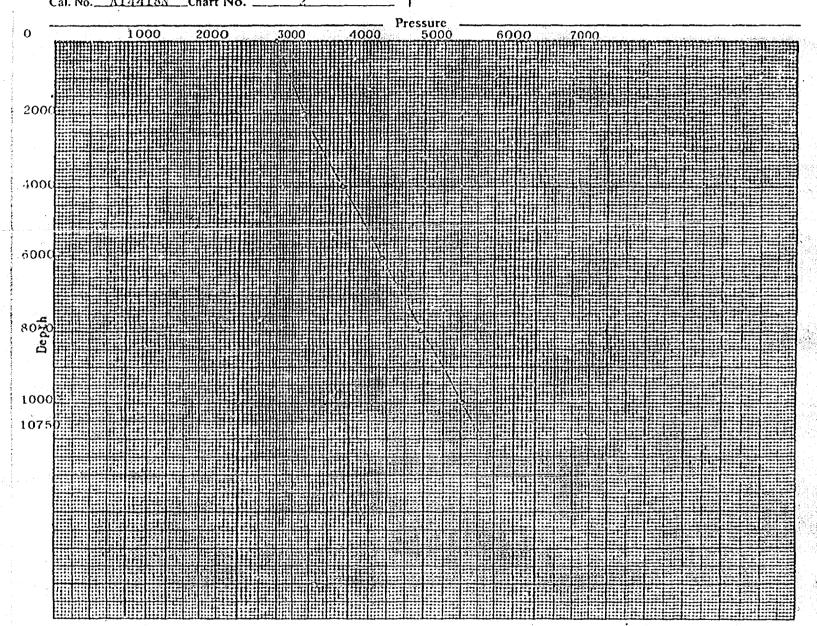
OPERATOR	HNG Oil	Company	· .
FIELD			
FORMATION	Wolf Cam	Р	
			WELL#1
COUNTY	Lea	STAT	E New Mexico
			E 12:00 N
Status	Shut in		
Test Depth	10750'		
			11/1/80
Tub Pres. 297	78BI	HP last test	5890
Cas. Pres. Dua	11B1	HP change	26# Loss
Elev365	<u>50 'KBFI</u>	uid top	Surface
Datum(493) ** W	ater top	None
Temp. @ 154	LER	in by	JSI #20
Cal No A1	1/19N C	hart No	•

BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
0	2978	. <u> </u>
2000	3401	.:12
4000	3901	.250
6000	4421	.260
8000	4961	.270
10000	5521	.230
10750	5746	.300
11143 (-7493)	5864 (5872)	(.300)320)

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



PHONE 505 393.5396

FIELD:

HOBBS, NEW MEXICO 88240 .

CASE No. 7128 EXHIBIT No. 9 b.

COMPANY: HNG Oil Company

WELL: San Simon 6 State Com, No. 1

Undesignated - Morrow

CHRONOLOGICAL PRESSURE DATA

DATE 1980	STATUS OF WELL	TIME	ELASPED HRS.	TIME MIN.	SURFACE PR	ESSURE CSG	вир е	(-9474 -)
	obility to all a la		5			<u> </u>	13124'	PSIG
10/23		0					7	
	Run Static Gradient	•			is Standard		•	•
و شروعه و	to 10000'	12:30 PM		_	5660	_ _		
10/31	Shut in 17.0 days			_	2000	Dua1	7460	
	Run Static Gradient					•		<i>₹</i> ,
	to 11371'	1:00 PM	_		E666	V		
	Started 1st Rate	1:15	0		5668 DWT	Dual	7551	
	Finished 1st Rate	2:15	1	15	5660	-	7551	
	& Started 2nd Rate		•	00	5602	-	7478	
	Finished 2nd Rate	3:15	4	00				the state of the state of
	& Started 3rd Rate	0.10	1	00	5777	_	7431	
	Finished 3rd Rate	4:15	•		* * * * * * * * * * * * * * * * * * *			
	& Started 4th Rate	4.10	1	00	5010		7350	
	Finished 4th Rate	5:15	4					
	& Fished Bombs	3:13	1	00	4712	-	7288	
	Flowing. Run Bombs			13.50		en a single	. 200	
	to 11371' & Shut in f		in a factor					
	Buildup.		ran ang ang at tang. Tang ang ang ang ang ang	Contract Carlot & C				
	Shut in	6:40	1	00	4770		7704	
	Sittle In	7:10	0	30	arr 🚅 💎 i i sai i i i sai	8 <u>(</u>	7304	n a stated as a big nativistic state as
		7:40	1	00	_		7491	
	i i	8:40	2	00	_		7491	
	the state of the s	9:40	3	00			7481	
	en en en en en en en en en en en en en e	10:40	4	00		en en en en en en en en en en en en en e	7481	
	II	11:40	5	00		-	7477	
4 4 / 4	VI	12:40	6	00		ig = prigni	7463	
11/1	· · · · · · · · · · · · · · · · · · ·	1:40 AM	7	00	a 7 🕶 🕌 🗀	-	7463	
		*	8	00	-	-	7458	
	u de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	_ :_	9	00	-	A.	7454 .	
	H .	2 - 1 2 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 4		_	7449	
	II			00	•••	. - * * * * *	7440	
	TI .		• _	00	• • • · · · · · · · · · · · · · · · · ·		7431	
	H			00	-	-	7421	
	t ti	4.4	a' a	00	-	-	7417	
	11	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		00	-	-	7417	
•	II .			00			7421	
	, u			00	. -	- '. "*	7421	
	, in			00	-	- ·	7426	•
•	H			00	-	_	7426	
	n)0 1)	-	•	7435	
1. W		2:40 2		00	·· <u>·</u> ·································			The second secon
		3:40 2		00	-		7435	
	•	4:40 2		0	-		7440	
	tt.	5:40 2	3 0	0	_		7440	
+ ,2		6:40 2		0	-	-	7449	
	H	7:40 2		o ·	<u></u>		7449	
•	· · · · · · · · · · · · · · · · · · ·	8:40 26	1		<u>.</u>	-	7449	
1.0		(1) 전 (1) 전 (, 0		-	-	7454	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

WELL: San Simon 6 Mate Com. No. 1

	PAGE: 2						
DATE	STATUS OF WELL	TIME	ELASPED HRS.	TIME MIN.	SURFACE TBG	PRESSURE CSG	BHP @ (-9474) 13124'PSIG
	Shut in	9:40	27	00	, 	_	7454
	11	10:40	28	00	-	_	7463
	n ·	11:40	29	00	-	-	7463
•	u .	12:40	30	00	W 🛥	-	7463
11/2/80	TI.	2:40 AM	32	00 .	~	••	7476
	, II	4:40	34	00	-	_	7477
	11	6:40	36	00	-	•	7435
- 4	. · · · · · · · · · · · · · · · · · · ·	8:40	38	00	-	_	7491
	44	10:40	40	00	-		7500
	11	12:40	42	00	-	, -	7505
	tt	2:40 PM	44	00	_		7509
	**	4:40	46	00	-	-	7514
ð	ti 🗼	6:40	48	00	-	•	7519
	11	8:40	50	00	•		7526
	Pt .	10:40	52	00	_	: -	7532
	n ·	12:40	54	00	-	· .	7537
1/3	•	2:40 AM	56	00	- .	·	7546
	ri .	4:40	58	00		• -	7551
: * * * * * * * * * * * * * * * * * * *	TT .	6:40	60	00	· 🚅 🧺 - 🔻		7556
	11	8:40	62	00	*	_	7564
**	er in the second second	10:40	64	00	_	_ /	7569
	••	12:40	66	00		•	7584
	51	2:40 PM	68	00	· ••	-	7584
Fi	shed Bombs & Run						
st	atic Gradient	4:40 PM	70	00	5696	- .	7584

JAAREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 -- 393-8274

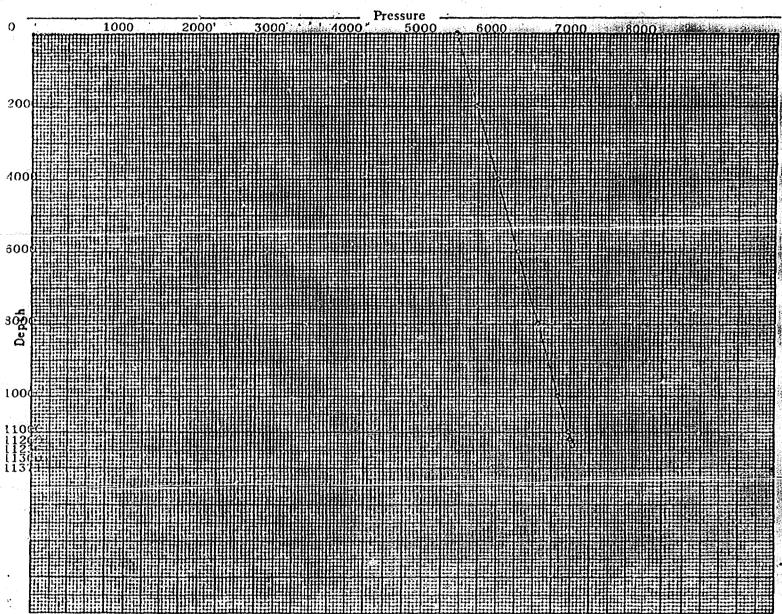
HOBBS, NEW MEXICO 88240

OPERATOR HING	Oil Company	
FIELD Unde		
FORMATION Morr		
LEASE San Sin	mon 6 State Com WELL#1	
	STATE New Mexic	0
DATE11/4	/80 TIME 4:40 PM	
Status Shut	in	
Test Depth1137	11	
Time S. I. 70 hrs	Last test date10/31/80	
Tub Pres. <u>5696</u>	BHP last test 7551	
Cas. Pres. Dual	BHP change 33# Gain	
Elev. 3650'KI	B Fluid top None	
Datum(-9474)** Water top None	
Temp. @ 172°F	<u> </u>	
	N Chart No. 2	

BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
O , * .	5696	-
2000	5978	.141
4000	6258	.140
6000	6538	.140
8000	6814	.138
10000	7085	.135
11000	7220	.135
11290	7242	.110
11250	7251	.180
11300	7260	.180
11371	7269	.180
13124 (-9474)	7584 * **	(.180)

- * EXTRAPOLATED PRESSURE
- ** MIDPOINT OF CASING PERFORATIONS



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DISTRIBUTIO			i- T /	O CORRE	OT GAS	voi.m	ME AND GO	ÁΩ	35.3	F.		Form C+105 Rovined 11-1		•
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FILE			ار روجونیا				ONSERVATION				1	itate X	C 10 Marin	"reo [
U.S.G.S.			WELL	COMPL	.ETION I	OR REC	COMPLETI	ON	REPORT	AND LUC	G 1	THE OIL & C	an Lease	
LAND OFFICE			/								1			
OPERATOR											177	13 898	497.79	311112
010							*	C	ASE No.	7128	1111	<i>! </i>	11111	111111
TO TYPE OF WELL		,						<u> </u>	100		13.6	ult Agreemen	ut Panie	דרדדדי
		011	(X)	GAS			٦		•		l	-		* .
b. TYPE OF COMPL	LET		تكاي	WEL	٠. لـــا	DAYL	Ј отнея				8.10	rm or Luane	e Kune	
	W074			PLU: DAC		DIFF.	OTHER	_			1	~•		_
2. Nome of Cresutor	14		· *		/- Land	(377.	J				- -3. \$,a	n Şimon	6-St€	ate Com
HNG Oil Com	ทอล	ทง										•		
3. Address of Operato		117							,	***************************************	7 10. F	tala and Pe	ol, or Wil	Icat
P.O. Box 22	267	. Midland	Te	vag 70	9702	•					1			•
4. Location of Well		1 11-4	1	Ang	1102				·		-K774	64-464	teamp-	177777
							•			•	Ulli.	1/////	<i>(1111).</i>	4////:
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-ur East Line o	- 50	6		22S #	35	T NMP	./////	1//	11/////	1111111	3	. 5	1111	1////
15. Date Spudded	T	16. Date T.D. i	leache	a 17. Date	e Coingl. []	Ready to	Prod.) 16.	Eiov	rollons (Ist	, RKB, RT,	CK. cic.	3 110, Elev.	Cashing)	LLLL. teople
8-10-80		10-4-80)-31-80		1.		28.8' G		•	1	8-8'	
20. Total Depth				k T.D.	22.	. If Multip	rle Compl., Ho		23. Interv	vals 🥎 Holar	ry Tools	السبالاد ا (۲	ble Tools	\$
13,300 '		13,2	2171		1	Many	2	- 1	Dinie	ed By ; →→ X	17	ļ	•	•
24. Producing Interval	i(s),			Top, Bollo	in, Name	-			<u> </u>		·			onal Survey
· v												A1~	ide .	
11,132 - 11			amp)				· .						No	
26, Type Electric and	Othe	er Dogs Hun										27. Was We		
Dual Laterlo	og	BHC Sonic	2, <u>C</u> c	ompe <u>ns</u> a	ted <u>Ne</u> v	ıtron_	Formatio	n_D	ensity		-1	No_		
28.							port all string				7			
CASING SIZE		WEIGHT LB.	FT.	DEPTI	H SET	но	LE SIZE		CEME	ENTING REC	Ono		AMOUNT F	PULLED
13-3/8		48#		1085	5'	17-	1/2		1450 s				Circ.	
9-5/8		36#		5687			1/4		0 C1C &	2950 Pa	acese	tter li	.te	
7		23#		11014		8-	1/2			etter 1				
The second secon	لــــا		لــــــــــــــــــــــــــــــــــــــ			<u></u>		<u> </u>	.					
29.			INER P	RECORD	<u></u>				30.	<u> </u>	UBING	RECORD		
SIZE		тор	ВС	OTTOM	SACKS C	EMENT	SCREEN		SIZE	DE	PTH SE	<u> </u>	PACKER	RSET
4-15 & 5"		0,782'	13	,300	400	C1H_	·		2-3/8"	10,7	7921		0,7821	
					<u></u>				<u> </u>				4.1.1.1	
31. Perforation Record	Unte	erval, size and	numbe	7)		14				RACTURE,				
							DEPTH			LOMA	INT AND	D KIND MA	TERIAL U	JSED
11,132 - 11,	15/	4 (.38" 1	2) ·				11,132	1	11,154	-3000-ge	Ho-15	5 % spea :	rhead	
							ļ			acid				
			•							 				
										L				
Date First Production		18.24		- dila	*** **** 1		UCTION ing - Size and				Totall S	tatus (Prod	Shutei	
	· · · · · · · · · · · · · · · · · · ·			•	ANG. Eus	H. Pamp	ng - ores con-	Tipes	լ, ևոտյ-չ		A STATE	tatus (r z	, 07 strain-	n)
11-1-80 Date of Test	116	outs Tested	lowin	ng oke Size	Prod'n. I	Par	OII — libl.		Gua - MCF	l'ate	<u>ST</u> -	Teas-	-Oil Rallo	
	, '' '	inte tester			Test Fer			- 1		1 3			· ·	
11-1-80 Flow Tubbig Press.	+=	4 Joston Pressure		9/64" tout ited 24-			_67_93 Our = 11		84_3	l0.		Cit Gravity	APL (Car. 1
		1940 1		ir hate	1		1		•		. 1			
2850	1501	J used for fuel	rente	J. etc.)	407	.58	505	<u>b_</u>		_0_Test	Witnesse	46.9		
	(· · ·	in Maringer year.	4 th ma.	<i>u</i> ,,							HIII)	ra w _e	:	
Vented	.,						<u>.</u>							

Log attached to Morrow completion

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

Signed Retty A. A. Gildon Title Regulatory Clerk DATE 12.

, W.

12-15-80

INSTRUCTION'S

This form in to be likely with the appropriate District of the Community and Intertion 26 days after the completion of any newly-diffled or despited with the appropriate by one copy of all electrical and collocativity logs run on the well and a summing of all special tents conducted, including still atom tests. All legals reported shall be accounted hydron. In the case of directionally differ wells, true verifical depths shall also be reported. For isolated a completions, these or those is shall be reported for each zone. The form is to be filed in quintiplicate except on state land, where rix copies are required, for these late 1955.

INDICATE CORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

·		So	ntheastern New Mexico			Northwe	estem New Mexico
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			T. Strawn11631				
n, Sut	lt		T. Atoka12128	_ T. Pict	uical Cli	lfs	T, Penn. "D"
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			T. Silurian				
T. Gra	ny bùrg		T. Montoya	T. Mane	os		T. McCrocken
			T. Simpson		-		
			T. McKee				
			T. Ellenburger				
	-		T. Gr. Wash				
			T. Granite				
			T. Definitive Sand				
T. Abo			7. Bone Springs 8360	_ T. Wing	MC		T
T. Wol	fcamp	Reet III	086 т. 3rd/ " 10794	T. Chin	le		T
			472 T. Morrow Line 12654				
T Cisc	o (Bough	C)	T. Morrow Clastics				T
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No. 2, 1re	om	***********		No. 5, In	om	4***********	
No. 3, fre	om	***********	0,	No. 6, fr	u	*********	
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No. 2, fro	>tn	*********					***************************************
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	10794	2434	Bone Springs] }	S S
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12128	12654	526	Atoka			14	
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12828	13300	472	Morrow Clastics			1	\$ 2 E I 3 S
	1	1					BEFORE EXAMINER STAMETS OIL CONSERVA ON DIVISION WAS EXHIBIT NO. 96 CASE NO. 712.8 Submitted by HOLK Hearing Date 1 14 91
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		4		TADDE			2 4.7	Cul	lculated H	ly:		Che	chesto	7/	(m)

COMPANY: WELL: San Simon 6 State Com, No. 1

> LOCATION: COUNTY:

DATE: October 31, 1980

H 6

Lea

225

35e

FORMATION: Morrow

Q-MCFD Q, = 1500MCFO; LOG Q, = 3.87506 Qz=1125 MCFO; LOG Qz = 3.05115 n=0.82391 = 0.824

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b. TYPE OF COMPLE	TION					-		**************************************				ase flame	
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4-1/2 & 5"	10,782		300	400	CIH	`		2-3/8"	107	02		11,332	
31. Perforation Record (Interval, size and	number				32.	ACIE	O, ŠHOT, FRA	CTURE, C	EMENT	SQUEE	ZE, ETC.	
· ·					1 3	DEPTH	W 1 45 K					MATERIAL U	SED
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33.					PROD	UCTION				 _			
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10-13-80		Flor	ving		25					Shu	t -	in	
Date of Test	Hours Tested	Che	ke Size	Post Pe		сп – вы.	: 1	Gas - MCF	Water	:	Ga	n-Sil Raño	
10-13-80	24		10/64		<u> </u>	70		2300		44		_33	
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35. List of Attachments													
Form C-122, I	nclination	Repo	ort, a	nd 1 se	t of :	logs- The	2 0	ther set	of log	s was	sen	t to San	ta Fe
36, I hereby cently that t	h information sh	or n on	both side	s of this fo.	m is tru	and complete	101	the best of my	knowledge	and b1	ong v	with For	m C-10
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INSTRUCTIONS

This form is to be filed with the harrist District Office of the Commission and later the state the completion of any newiscinited or desponed with it shall be a companied by one copy of all electrical and relatedivity from much the well and a mainly of all epocal losis conducted, including full total team, All depoin to equal to the engage blocks, in the case of discriminally difficiently depths shall also be regarded. For malifule completions, them in the harry of the all be regarded for each sone. The turn in to be filed in quanty, licete except on state land, where six copies are required. One full 11%.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

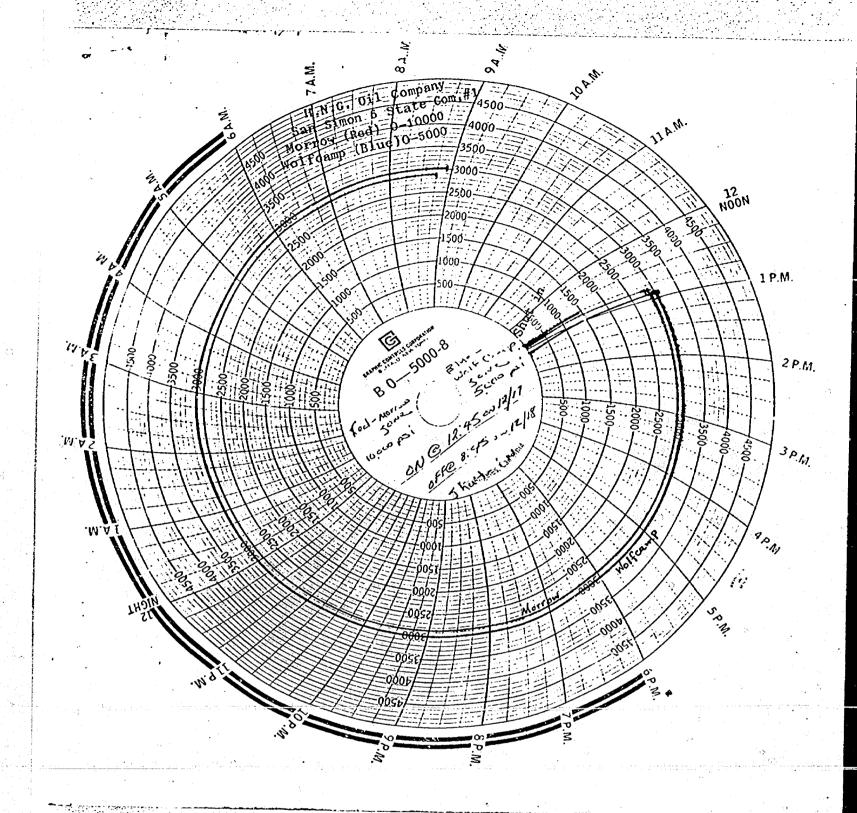
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NEW MEXICO OIL CONSERVATION COMMISSION

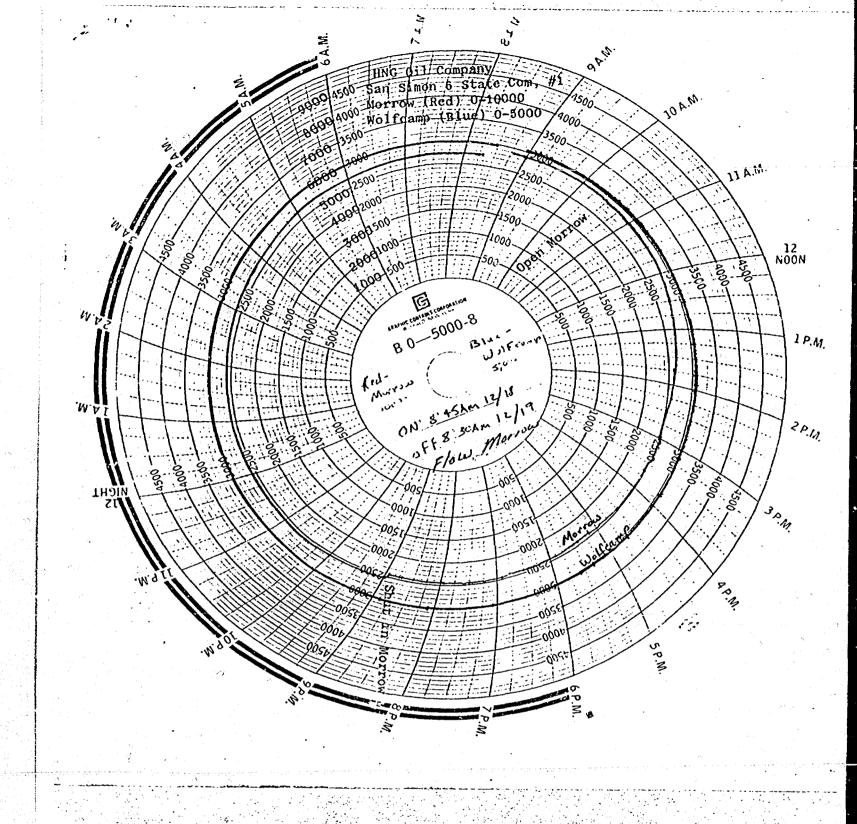
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

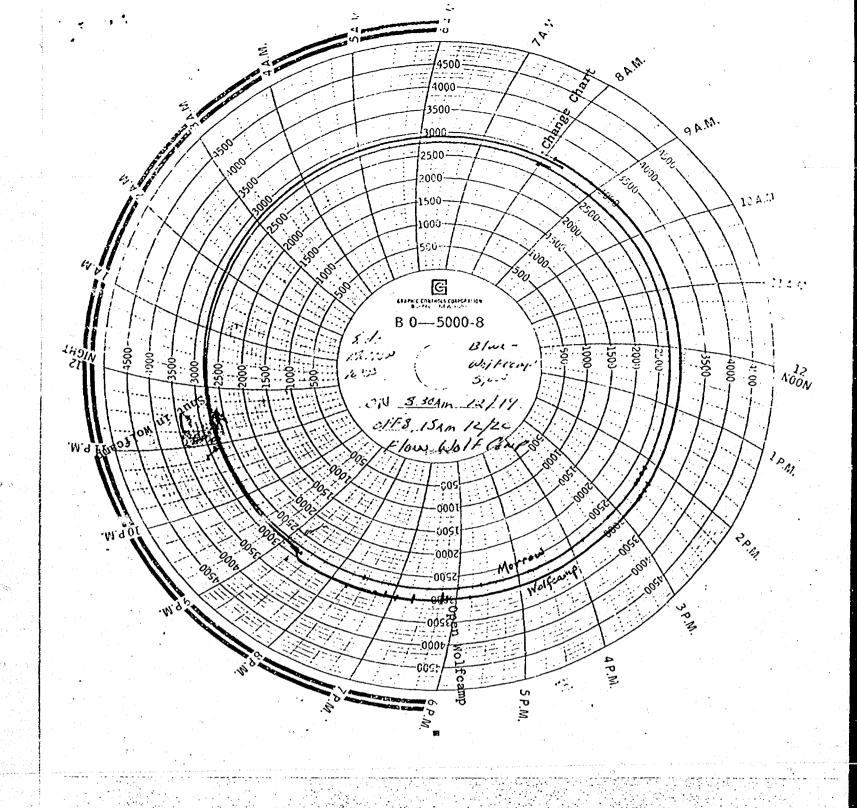
EXHIBIT	No. 4
CASE NO	7128

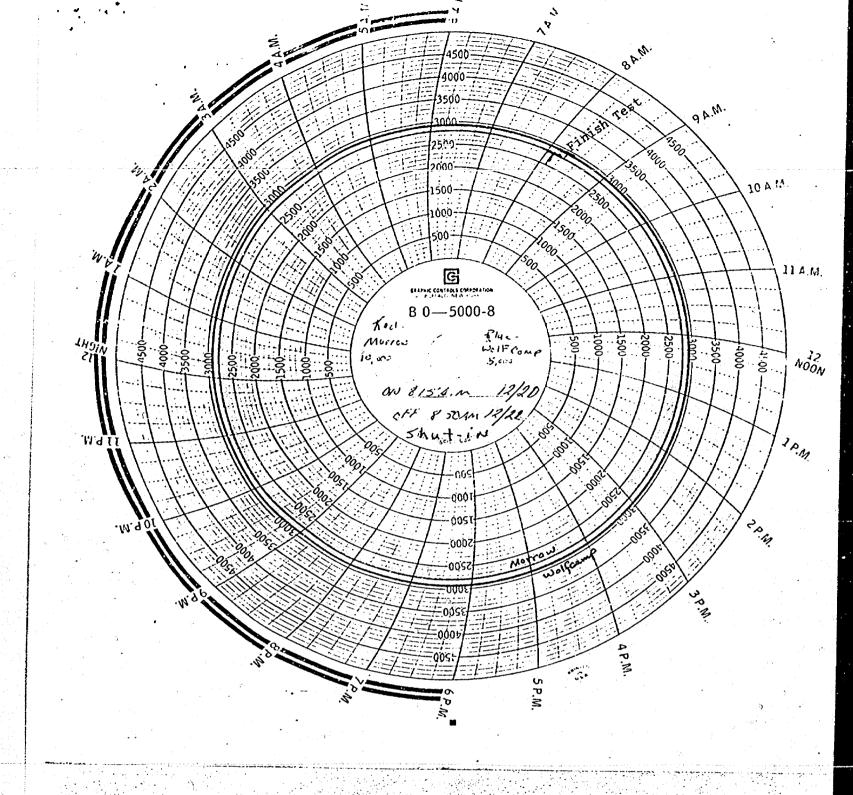
(A		ll and		· · · · · · · · · · · · · · · · · · ·		ell
Operator HNG 0il Company		Leas	e _San Simon 6 State	e Com.		ell o. 1
Location Unit Se	9C	Twp	Rge		County	,
of Well H		Type of Prod	Method of Prod		Medium	Lea Choke Size
Upper		(Oil or Gas)	Flow, Art Lift		or Csg)	0.104
Compl Wolf Camp Lower		0i1	Flow	Tbg.		8/64
Compl Morrow		Gas	Flow	Tbg.		8.5/64
		FLOW TEST	NO. 1		-	•
Both zones shut-in at (h	nour, date):	11/1/80				
Well opened at (hour, da	ite):	10:30 AM 1	12/18/80		Upper mpletion	Lower Completion
Indicate by (X) the zo				Y		X
Pressure at beginning of						5697
Stabilized? (Yes or No).		•				Yes
Maximum pressure during		18 (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18)				5697
Minimum pressure during						4660
Pressure at conclusion o		· · · · · · · · · · · · · · · · · · ·				4820
Pressure change during t			2			1037
Was pressure change an i	د د ده افغاه به خوری دیشتر در در او او او او او او او او او او او او او	The second secon	Total Tim	me On		Decrease
Well closed at (hour, day Oil Production During Test: 5 bbl:		Gas Prod	Productio	on1		
Remarks						
		· FLOW TEST N	0. 2	* :		
Well opened at (hour, dat	te):6:30				pper pletion	Lower Completion
Indicate by (X) the a						——————————————————————————————————————
Pressure at beginning of	test					5640
Stabilized? (Yes or No)	nagas and an anna an an an an an an an an an an a		<u> </u>			Yes
Maximum pressure during t	test	•••••	••••••	3	110	5695
Minimum pressure during t	test		*******	2	900	5640
Pressure at conclusion of	f test		•••••••••	<u>2</u>	900	5695
Pressure change during te	est (Maximum mi	inus Minimum).	••••••		210	55
Was pressure change an in	icrease or a de	crease?		De	ncrease ecrease	Increase
Well closed at (hour, dat	,e) <u>12:00</u>				hours	o d
Oil Production During Test: 24 bbls	; Grav. 46.9	Gas Produc ;During Tes		_MCF; GOF	₹ 3504	
Remarks						
	i da da Maria da Maria Maria da <u>da Maria da Mari</u>		and the second of the second			
I hereby certify that the knowledge.	information h					t of my
	19		Operator HNG 011	L COMPAN	<u>Y</u>	
New Mexico Oil Conservat	7/		By JARREL	SERVICES	s, inc.	
By			Suc	AGU	teme	
Title			itle Agent Decembe	er 22, 19	980	
the same of the sa		D.	ate Decembe	31 66, 1	300	



IJ







Marked Area is some in the

Capital in allegand and an appropriate

NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

Nome of party making report	, being of family age and having full
knowledge of the facts hereinbelow set out do state:	•
That I am employed by HNG Oil Company	in the capacity of
Drilling Superintendent , that	10-8 , 19_80
I personally supervised the setting of a 4-1/11 TIW PB	R. Make & type of packer
in HNG Oil Company , San	Simon 6 State Com.
Well no. 1 located in the Und.	Wolfcamp field,
Lea county, state of N	M , at a subsurface depth of
	casurement having been furnished me by
drill pipe measurement	• <u>\$</u>
That the purpose of setting this packer was to effect a	scul in the annulur space between two
strings of pipe where the packer was set so as to prevent the	ie commingling, in the bore of this well,
of fluids produced from a stratum below the packer with fl	uids produced from a stratum above the
packer; that this packer was properly set and that it did, wh	hen set, effectively and absolutely seel
off the annular space between the two strings of pipe who	ere it was set in such manner as that it
prevented any movement of fluids across the packer.	
- January Company	(Signature)
District Drill	ing Superintendent (Title)
December 9, 19	(Date)

NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

I, Frank Brownson	, being of lawful age and having full
Name of party making report	
knowledge of the facts hereinholow set out do state:	
That I am employed by HNG Oil Company	in the capacity of
Drilling Superintendent , that on	10-8 , 19 80
I personally supervised the setting of a 4" TIW PBR	se & type of packer
	non 6 State Com.
Operator of well	Lense name
Well no. 1 located in the Und. Morr	rowfield.
Lea county, state of NM	, at a subsurface depth of
11, 332 feet, said depth mensi	
100t, said depth meast	prement having been furnished me by
drill pipe measurement .	
that the purpose of setting this packer was to effect a seastrings of pipe where the packer was set so as to prevent the co	
I fluids produced from a stratum below the packer with fluids	anduced from a steeting along the
	en in Northwale in the settle of the set
acker; that this packer was properly set and that It did, when	set, effectively and absolutely seel
ကြောင့် မြောင်းသည်။ ကြောင့်များများသည်။ မြောင်းများသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည် သည်သည်။ မောင်းမြောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည်။ မောင်းသည	
If the onnular space between the two strings of pipe where i	t was set in such manner as that it
revented any movement of fluids across the packer.	
ر بر المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع ا المراجع المراجع •	
	Lours
	Superintendent
December 9, 1980	(Tide)
	(liate)

Jarrel Services, Inc.

POSŤ OFFICE BOX 1654

PHONES 505 393-5396 -- 393-8274

HOBBS, NEW MEXICO 88240

OPERATOR HNG Oil Company	BOTTOM HOLE PRESSURE RECO	ORD
FIELD Undesignated		
FORMATION Morrow	Depth Pressure	Gradient
LEASE San Simon 6 State Com WELL #1	5705	- Gradient
COUNTY Lea STATE New Mexico	2000 5944	.120
DATE 12/17/80 TIME 9:30 AM	4000 6218	.137
Status Shut in	6000 6492	.137
Test Depth 11371'	8000 6768	.138
Time S. I. <u>50 days</u> Last test date <u>10/31/80</u>	10000 7044	.138
Tuh Pres. 5705 BHP last test 7551	11000 7182 11200 7210	.138
Cas. Pres. Dual BHP change 5# Gain	11200 7210 11250 7219	.140
Elev. 3650 KB Fluid top None	11300 7219	.180 .180
Datum (-9474) ** Water top None	11371 7240	.180
Temp. @ 162 F Run by JSI #10	13124 (-9474) 7556 * **	(.180)
Cal. No. A18473N Chart No. 1	* EXTRAPOLATED PRESSURE	•
	ressure ** MIDPOINT OF CASING PR	ERFORATIONS
O 1000 2000 3000 4000	5000 6000 7000 8000	
2000		
1000		
5000		
40kg 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기		
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1000) 11000		

JAPREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 -- 393-8274

HOBBS, NEW MEXICO 88240

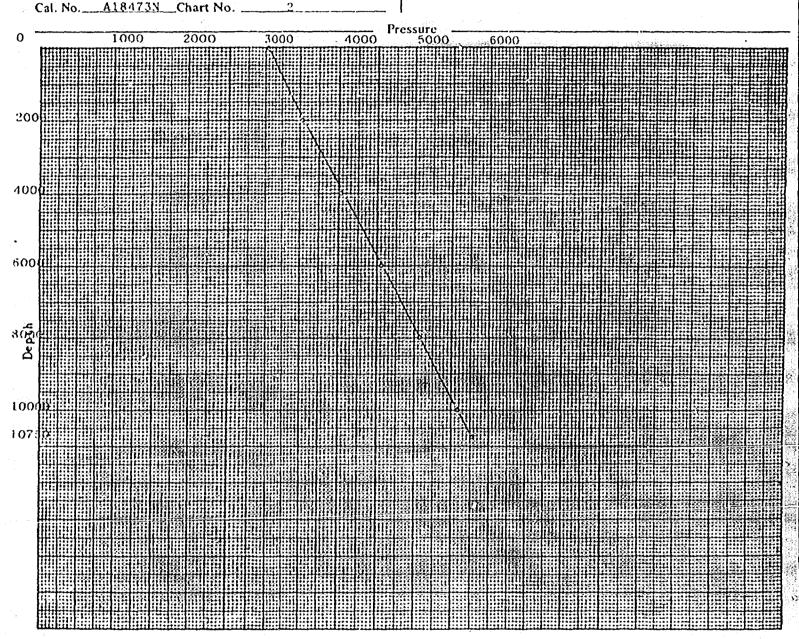
*		
OPERATOR	HNG OIL Compan	у
FIELD	Undesignated	
FORMATION	Wolfeamp	· · · · · · · · · · · · · · · · · · ·
LEASE San	Simon 6 State	Com WELL #1
COUNTY	<u>1.ea</u>	MATE New Mexico
DATE	12/17/80	TIME 12:15 PM
Status	Shut in	·
Test Depth	10750'	
Time S. I. 16 C	lays Last test date	e 11/4/80
Tub Pres. 3036	BHP last tes	15864
Cas. Pres. Dual	BHP change	14# Gain
		Surface
Datum	193)**Water top_	None
Temp. @ 145	FRun by	JSI #10
O I N 4103	1771 OC. AND	0

BOTTOM HOLE PRESSURE RECORD

Depth		Pressure	Gradient
0		3036	-
2000		3538	.251
4000		4048	.253
6000		4558	.255
8000		5070	.256
10000		5584	.257
10750	+ 343 L	5777	.257
11143	(-7493)	5878 * **	(.257)

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



HAROLD L WILLIAMS CONSULTANTS, INC.

3307 NEELY 915/694-6908 MIDLAND, TEXAS 79703

December 30, 1980

Mr. Richard N. Mercurio HNG Oil Company P.O. Box 2267 Midland, TX 79702

Dear Mr. Mercurio:

This is the Paleontological Report requested by you on December 18, 1980. It covers the interval from 10,500 to 13,300 feet in the HNG Oil Company, San Simon State 6 Com No. 1, Lea County, New Mexico. Data were reported to you by telephone today.

Also enclosed is a Xerox copy of a lithologic log covering the same interval.

Thank you.

Very truly yours,

Hornd LWollsing
Harold L Williams

HLW/fw

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
HNG EXHIBIT NO. 3
CASE NO. 7128
Submitted by MARTIN
Hearing Date 114 81

HAROLD L WILLIAMS CONSULTANTS, INC. STRATIGRAPHY - PALEONTOLOGY 3307 NEELY 915/694-6908 MIDLAND, TEXAS 79703

December 30, 1980

Lea County, New Mexico HNG Oil Company

San Simon State 6 Com No. 1 Sec. 6, T 22 S, R 35 E

1980 FNL & 660 FEL of section Comp: 12-?-80 TD: 13,300 El: 3650 KB

10,500-10,680: No fossils found

10,680-10,710: Leonard fusulines, lower Leonard types 10,680-10,710: Schubertella cf. melonica

10,710-10,990: No fossils found

?: Suggested top Wolfcamp series by lithology

10,990-11,620: Wolfcamp fusilines, Hueco types 10,990-11,090: Upper Hueco types 10,990-11,000: Schwagerina 11,000-11,080: No fossils found 11,080-11,090: Schwagerina

11,090-11,200: No fossils found 11,200-11,620: Lower Hueco types

11,200-11,440: Schwagerina; Paraschwagerina in 11,250-60 11,440-11,500: No fossils found

11,500-11,620: Triticites; Paraschwagerina in 11,570-80

11,620-11,650: No fossils found

11,650: Suggested base Wolfcamp series by lithology

11,650: Suggested top lower Strawn limestone by lithology

11,650-11,750: No diagnostic fossils found

11,750-11,760: Lower Strawn fusulines 11,750-11,760: Fusulina Chaetetes - coral indicative of Strawn

11,760-12,080: No diagnostic fossils found

12,080: Suggested top Atoka series by lithology

12,080-12,120: No diagnostic fossils found

Lea Co., N. Mex. - HNG, San Simon State 6 Com No. 1 ----- Page 2

12,120-12,460: Atoka fusulines, nondescript types

12,120-12,130: Paramillerella 12,130-12,390: No diagnostic No diagnostic fossils found

12,390-12,400: Millerella

12,400-12,450: No diagnostic fossils found 12,450-12,460: Paramillerella

12,460-12,780: Non-diagnostic fossils fragments - mostly algae, sponge spicules, crinoids

12,780: Suggested top Morrow series by lithology and regional correlations

12,780-12,870: Morrow fusulines 12,780-12,870: Millerella

12,870-13,300 TD: No fossils found

13,200-13,300 TD: "Barnett" shale by lithology

Samples were examined from 10,500 to 13,200 feet, total depth.

Respectfully submitted,

Hough L Williams
Harold L Williams

HLW/fw

HAROLD L WILLIAMS CONSULTANTS, INC.

STRATIGRAPHY - PALEONTOLOGY

3307 NEELY 915/694-6908

MIDLAND. TEXAS 79703

December 30, 1980

Mr. Richard N. Mercurio HNG Oil Company P.O. Box 2267 Midland, TX 79702

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Thank you.

Very truly yours,

Harold L Williams

HLW/fw

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

HNQ EXHIBIT NO. 3

CASE NO. 7178

Submitted by MARTIN

Hearing Date 1 | 4 | 81

HAROLD & WILLIAMS CONSULTANTS, INC. STRATIGRAPHY - PALEONTOLOGY 3307 NEELY 915/694-6908 MIDLAND. TEXAS 79703

December 30, 1980

Lea County, New Mexico
HNG Oil Company
San Simon State 6 Com No. 1
Sec. 6, T 22 S, R 35 E
1980 FNL & 660 FEL of section
Comp: 12-?-80 TD: 13,300 El: 3650 KB

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Chaetetes - coral indicative of Strawn

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12,080: Suggested top Atoka series by lithology

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Lea Co., N. Mex. - HNG, San Simon State 6 Com No. 1 ---- Page 2

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13,200-13,300 TD: "Barnett" shale by lithology

Samples were examined from 10,500 to 13,200 feet, total depth.

Respectfully submitted,

Howold I Williams

W1/WIK

Source: Rmf Rmc Rm @ BHI Rmc Rm Rmc Rm Rmc Type Fluid in Hole Dens. Visc. pH Fluid toss Source of Sample Rm (@ Meas. Ter Rmf (@ Meas. Ter	Run - Doiller Depth-Logger Bim. Log Intervol Top Log Intervol Cosing-Doiller Casing-Logger Bit Size	# ¥ § # III	OUNIT LEA UNDESTG. MORROW		
im (a) BHI (a) BHI (b) Green on Solom (c) Rec. Temp. (vip. Location (c) Location (c) Location (d) Location (d) Location (d) Location (d) Location (d) Location (d) Location (d) Location (d) Location (d) Location (d) Location	Fluid in Hole L Visc. Fluid Loss e of Sample (a) Meas, Temp. (a) Meas, Temp. (b) Meas, Temp.	Onller logge later Drille	AMEO	SAN STMON STATE "6" COM. #1	
Siopped Siopped Solion	d in Hole Visc. Fluid Loss f Sample Meas, Temp. Meas, Temp.	3 2 5 3	Sured Fra	OMPANY HNG OIL CO.	
Bi	1 0 0 0 X C	A171000HFFF	L S'il	LOCATION O TO S I O	
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			-80 KKG	DUNTY EEL	
HOBBS	7981 8	5675	887		
SSF		┸╌╁╌╂┈╂┈╁╌╁╌	- N		
172 8185 CHERR CHERR	SALT 10.9 9.0 9.0 10.9	13241 13224 13222 13222 10998	-	LEA UNDE	
	ରାରାରା - ≾ ~	0 0 N W P	1 Fr. 10-3-80	ESIG	
LEUSHE STANDES	1	1101	<u>}</u> . ∨	SIGNA SIGNA SIGNA	
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			randondendend 5 " "	
▋ ▗ ┼┼ ╗ ┼┼ ╸	}"}" - - -		Elev.	BHC COM.	
			C. P. K.	COM. 11 COM. 11 COM. 11 COM. 11	
			3650 3629		77.
	4 4 3		9 0		
FOLO HERE		ne, location and bar	hole reference data	were furnished by the customer.	
RUN NO.	ONE	THO			
Service Order No. Fluid Level	143273 120	FULL		Type Log Depth	
Salinity, PPM CL. Speed - F.P.M.	20000 30	100000			
EQUIPMENT DATA	88 482	200			
Dens. Carl.	661	352			
Dens. Skid. Dens. Sonde	1153 306	307		REMARKS:	
Dens. Source Dens. Calibrator	3334 696	3425 184		RUN ONE: TYPE CENT	RAL I ZERS:
Neut, Panel Neut, Cart.	88 482 485	2090		BOWSPRING & CALIF	
Neut. Source	373	2160			
GR Carl.	549 1752	3003			· · · · · · · · · · · · · · · · · · ·
Memorizer Panel Tape Recorder (TTR)	1057 8 1722				
Pressure Wheel (CPW)		1.0			
Centralizers: Type Enter Spring, Standolfs, No.	1 EA.	BOWSPRING			
In-tine, or None S. O In					
8KG. CPS	59	SEE CAL			
GR Source CPS Sens Cal	512 165	FILM			
T. C Cal Short Spucing - Before	1 log 5728	V 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Long Spacing - Before L Short Spacing - After Lo					
Long Spacing - After Lo	9 2558				
P - Before Log	928 705				
PI - After Log	426 716				
DEPTH	C	LC NP	OGGING DATA	FDC	GŘ
Top Bottom	Porosity Matri	Auto Corr. or Hole Size Settin		Grain Liquid Hole Sens. ensity Density Fluid Logged	. C. Div. Sco Left 100 D
	30 -10 LS-0		30 -10 2.	71 1.0 LIO 100 100	1 0 100 1 0 100
	30 -10 LIME	AUTO	30 -10 2.		0 100
pretations, and we shall	not, except in the cose of	of arous or willful nealing	nce on our part, be habi	annot, and do not guarantee the accuracy or correctle or responsible for any lass, cashs, damages or esponsible for any lass, cashs, damages or esponsible. These into vertakons are also subject to our C	penses incurred or
Conditions as set out in a	r current Price Schedule				
•	(GAPI) 200.0	-0	DRHQ(G/.	C3>	
GR	200.0			NPHI()	
100.0	? 	Run 1 0.	3000		-0.100
100.0	16.00			KMBSCD/CBJ	
INER-899AMETS	16.00			RHOB(G/C3)	7.
INER-STAMETS	16.00				
TION DIVISION	16.00			CASE NO.	
INER-SPAMETS ATION DIVISION BIT NO. 6	16.00				7128

BEFORE E CASE NO. Submitted 🗼 Hearing Date 🔟

PARAMETERS

0.3000

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE	
HC MDEN BHF	G/C3	CALI 2.710 WATE	PSNR FD	G/C3	2.355 1.100	BS MATR	INCH	6.125 LIME	
מֿפֿ		0.0	BHS		OPEN	FPHI		PHIX	
GR	(GAP			9		·			
100.0	TCIH.	200.0				NPHIC	,	ä	
5.000	-47411.	15.00	Run 2	3000					-0.100

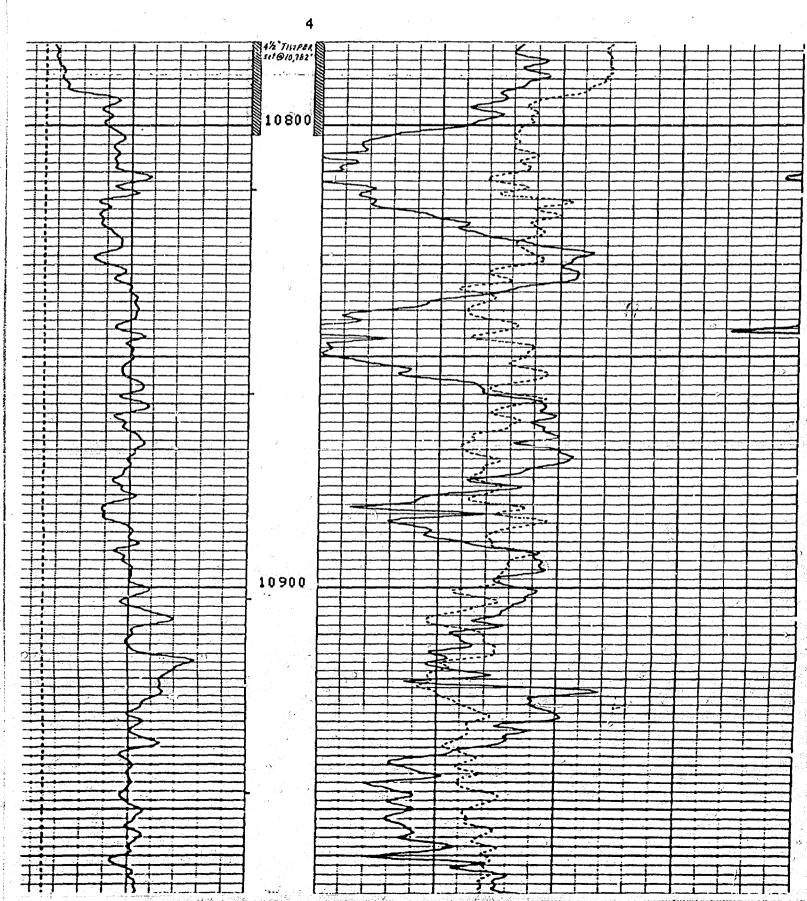
-0.100

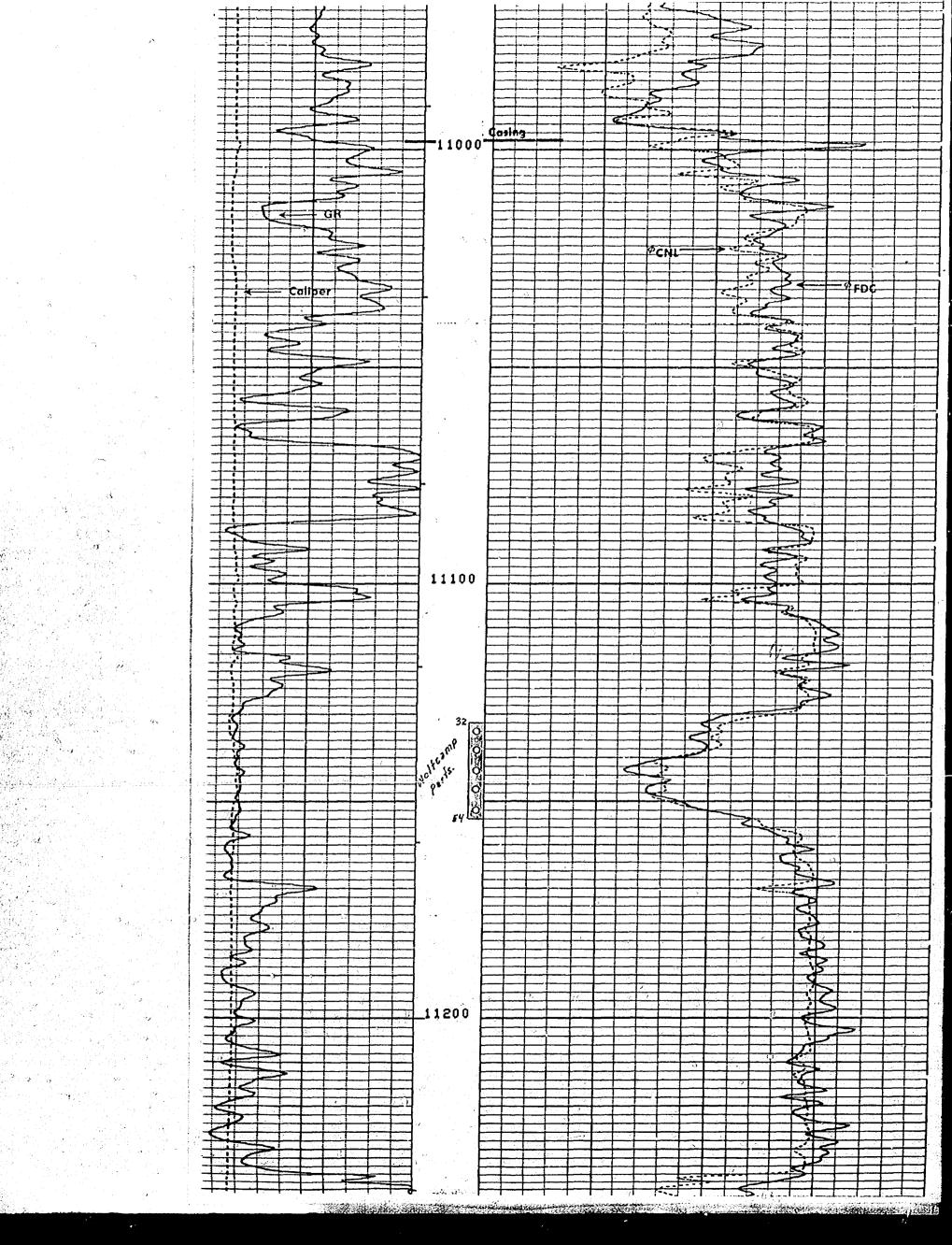
FILE

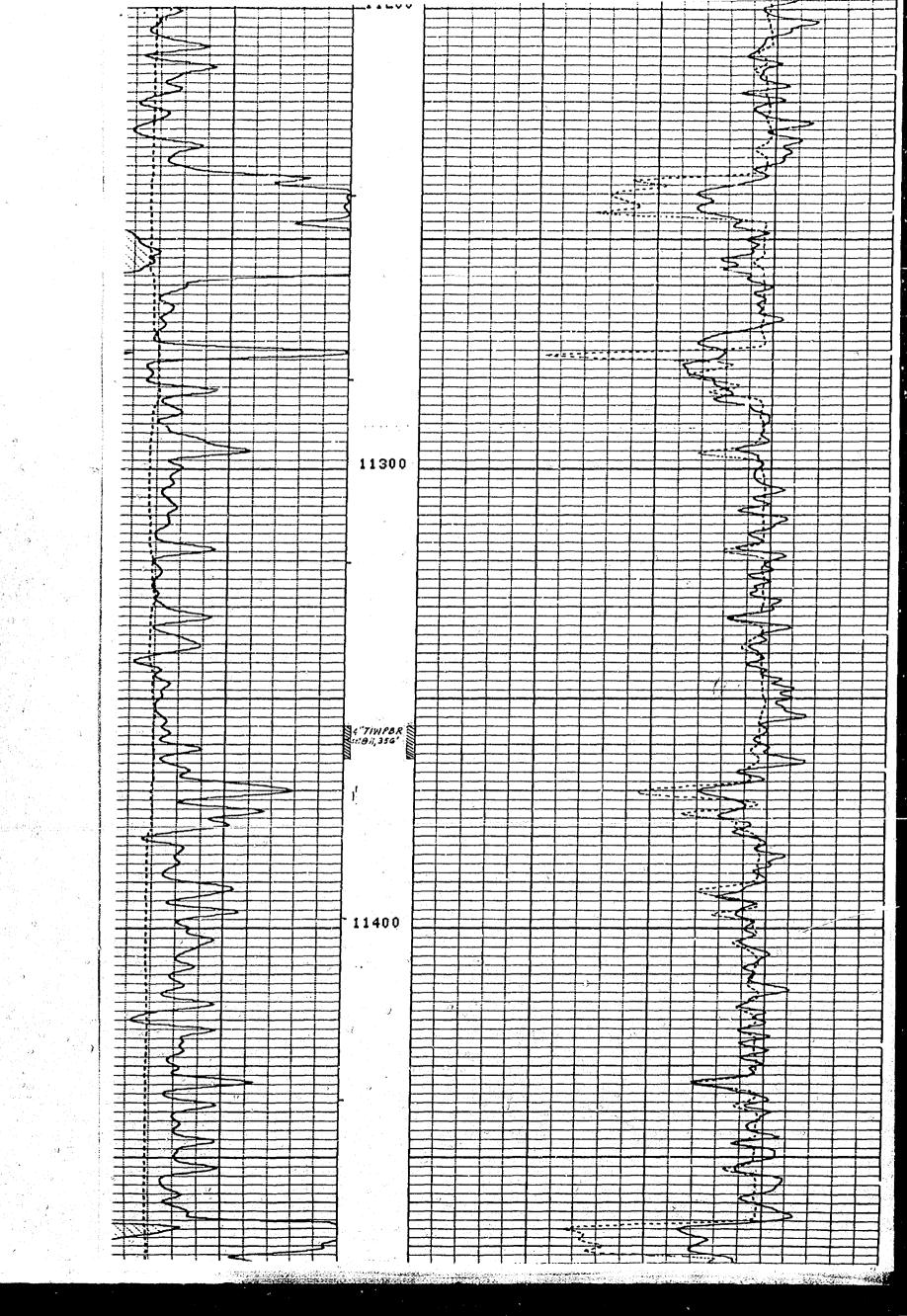
100.0

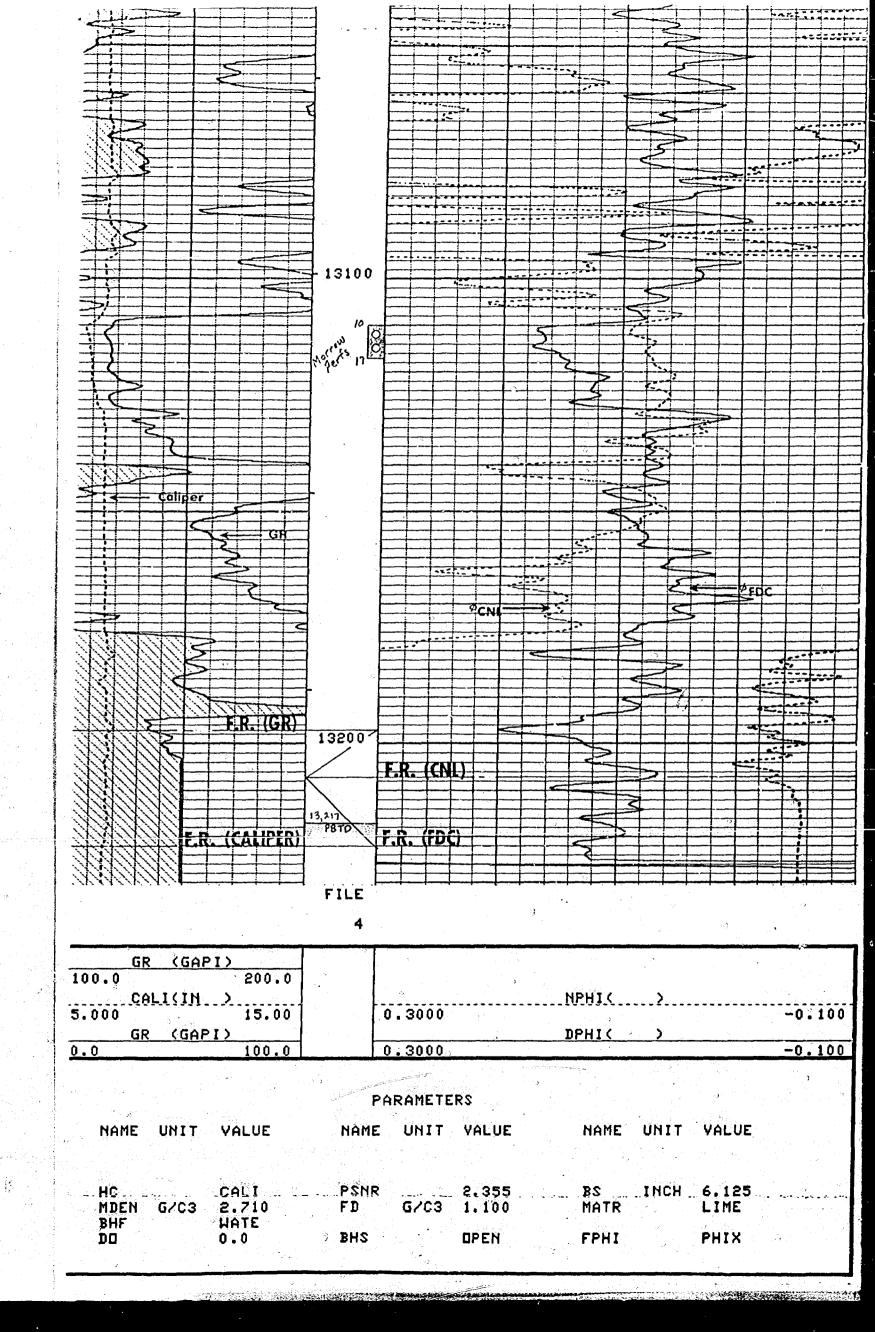
GR (GAPI)

).0







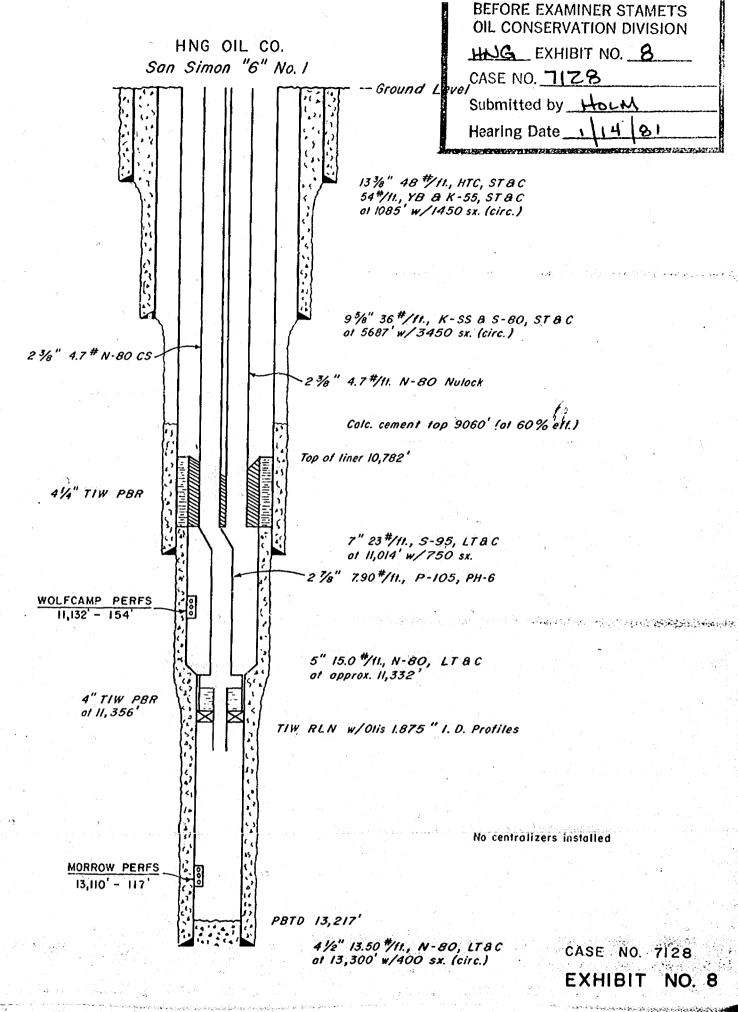


CASE No. 7128 EXHIBIT No.]

Overgion County Dala 12-1-80 Lea HNG Oil Company Well No. San Simon 6 State Com P.0 Location. of Well 35E 228 1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the sa zones within one mile of the subject well? YES NO 2. If answer is yes, identify one such instance: Order No. ; Operator Lease, and Well No.: 3. The following facts are submitted: Intermediate Upper Zone a. Name of Pool and Formation Und. Morrow Und. Wolfcamp b. Top and Bottom of 13,110' - 13,117' Pay Section 11,132' - 11,154' (Perforations) c. Type of production (Oil or Gas) Gas 011 d. Method of Production (Flowing or Artificial Life) Flowing 4. The following are attached. (Please check YES or NO) a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. X b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation in-dicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A. X 5. List all offset operators to the lease on which this well is located together with their correct mailing address. Exxon Company, USA, Box 1700, Midland, Texas 79702 Odessa, Texas 79761 Phillips Petroleum, Phillips Bldg., Northern Nat'l. Gas Co., 403 Wall Towers West, Midland, Texas Texaco, Inc., Box 3109, Midland, Texas 79702 Amerada Hess Corp., 2207 West Industrial, Midland, Getty Oil Co., Box 1231, Midland, Texas 79702 6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO date of such notification December 1, 1980 CERTIFICATE: I, the undersigned, state that I am the Regulatory Clerk (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge Amoco Prod. Co. P.O. Box 1725 Midland, Texas 79702

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest for request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



HOBBS, NEW MEXICO 88240

CASE No. 7128

POST OFFICE BOX 165

PHONE 505 393.5396

EXHIBIT No. 9 a.

COMPANY: HNG Oil Company

WELL: San Simon 6 State Com, No. 1

FIELD: Undesignated - Wolf Camp

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF WELL	TIME	ELASPED HRS.	TIME MIN.	SURFACE PE	RESSURE CSG	BHP @ (-7493)
			,	-,			
1980 11/	Shut in 18 days. Run		,			***	•
11/	Static Gradient w/Ta			•		*	
	Bombs & Set bombs @	ndom	• •		•		1, **
	10750'	10:30 A	M -		3020 DWT	Dual	5890
	Started 1st Rate	10:45	0	15	3020	-	5890
	Finished 1st Rate	11:45	× 1	00	3017	_	5856
	& Started 2nd Rate		_				
	Finished 2nd Rate	12:45	1	00	2997	_	5801
	& Started 3rd Rate						
	Finished 3rd Rate	1:45	1	00	2830	- 17	5759
	& Started 4th Rate	**				* /	
	Finished 4th Rate	2:45	1	00	2720	_	5674
	C Fished bombs. Flow	ing				•	
•	Run Bombs to 10750'	&		. A			
	Shut in for Buildup	4:00	. 1	15	2650		5603
•	Shut in	4:30	1	30		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	5650
	n (* 1	5:00	1	00			5664
	u de la companya de l	5:30	1	30	· ·	· ·	5688
	production of the second	6:00	2	00	-		5705
	·#	6:30	2	30		-	5726
	11	7:00	3	00		-	5736
	0	7:30	. 3	30	_	-	5749
-	10	8:00	4	00			5760
	ři .	8:30	4	30	_	-	5773
	to the second second	9;00	5	00		_	5787
·	11	9:30	5	. 30		_	5794
	11	10:00	6	00	. · ·		5804
-176	tt e	10:30	6	30	. , 	-	5807
		11:30	7	00 .	-	. · ·	5578
11/1	0	12:00	8	00	_	_	5821
11/2		1:00 AM		00	-	-	5828
	•	2:00	10	00	- -	. -	5835
		3:00	11	00		-	5838
	***	4:00	12	00	- ' ' '	-	5838
14	· · · · · · · · · · · · · · · · · · ·	6:00	14	00	<u></u> ,	- · ·	5845
	11	8:00	16	00		-	5848
en en energe de la companya de la co		10:00	18	00		-	5848
	and the state of the state of	12:00	20	00	و معالم المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالي		5855
		2:00	22	00	- ,		5855
	ii .	4:00	24	00		-	5855
	ń	6:00	2 6	00	-	- '',	5855
•	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (8:00	28	00.	- , :	-	5855
		10:00	30	00	- ' ' '	- 1	5855
	•	3:00 PM	35	00	· .	- '	5855
11/0		8:00	40	00			5864

WELL: San Simon 6 te Com, No. 1

	PAGE: 2					•		
DATE	STATUS OF WELL	TIME		ELASPED HRS.	TIME MIN.	SURFACE I TBG	PRESSURE CSG	BHP @ (-7493) 11143'PSIG
11/3	Shut in	1:00	AM	45	00	•• ^		5864
	· · ·	6:00		50	00	-		5864
•	H	11:00		55	00			5864
	11	4:00	PM	60	00	` -	-	5864
	11 - 2	9:00		-65	00		The second second second	5864
	Fished Bombs & Run							
	Static Gradient	12:00	N	68	00	2978	-	5864

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 -- 393-8274

HOBBS, NEW MEXICO 88240

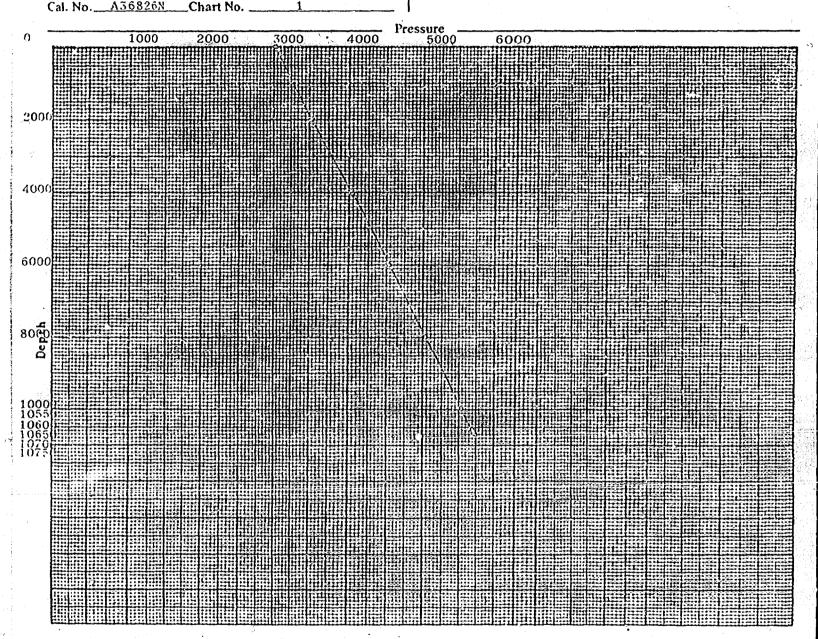
OPERATOR HNG Oil Company	
FIELD Undesignated	
FORMATION Wolf Camp	
LEASE San Simon 6 State Com	WELL_#1
COUNTY Lea STATE	New Mexico
DATE November 1, 1980 TIME	
Status Shut in	
Test Depth	·
Time S. I. 18 days Last test date	
Tub Pres. 3020 DWT BHP last test	
Cas. Pres. Dual BHP change	
Elev. 3633 KB Fluid top	Surface
Datum (-7493)** Water top	None
Temp. @154°F Run by	JSI #16
Cal Ma A 76926N Chara Na	1

BOTTOM HOLE PRESSURE RECORD

Depth		Pressure		Gradient
0 .		3020		
2000		3517		. 249
4000		4023		. 253
6000		4529		.253
8000		5039		.255
10000		5549		.255
10550		5703		. 280
10600		5718		500
10650		5734		.320
10700		5750		.520
10750		5766		. 520
11143	(-7493)	5890	\$ \$1 \$1	(.320)
	.1. ***			a a section

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-8274

HOBBS, NEW MEXICO 85240

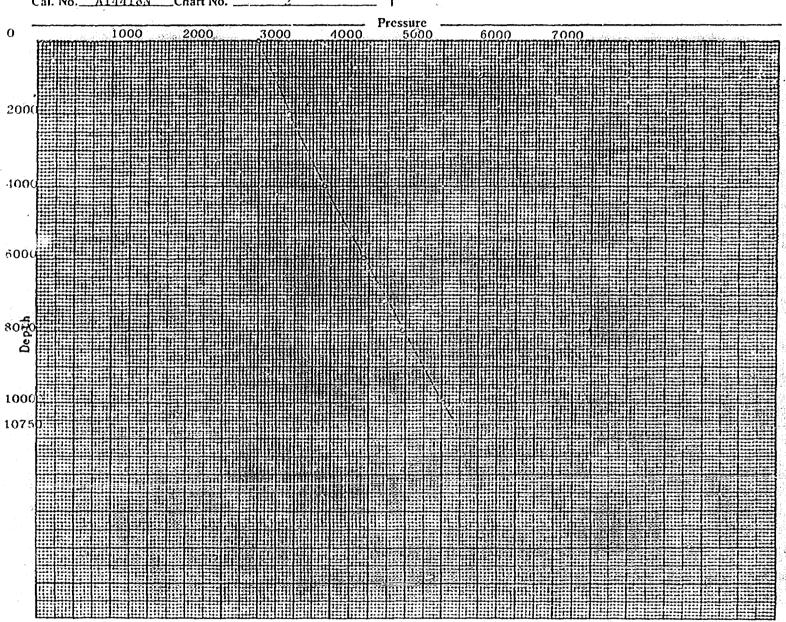
BOTTOM HOLE PRESSURE RECORD

OPERATOR HNG Oil Company	
FIELD Undesignated	
FORMATION Wolf Camp	
LEASE San Simon 6 State Com	WELL #1
COUNTY <u>Lea</u> STATI	
DATE 11/4/80 TIME	
Status Shut in	
Test Depth	
Time S. I. 68.0 hrs. Last test date _	11/1/80
Tub Pres. 2978 BHP last test	5890
Cas. Pres. Dual BHP change	26# Loss
Elev. 3650 KB Fluid top	Surface !
Datum (-7493)** Water top	None
Temp. @ 154°F Run by	JSI #20
Cal No. A1/A18N Chart No.	9

Depth	Pressure	Gradient
0	2978	_
2000	3401	.212
4000	3901	.250
6000	4421	.260
8000	4961	.270
10000	5521	.280
10750	5746	.300
11143 (-7493)	⁵⁸⁶⁴ (\$872)	(.320)

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



SERVICES,

POST OFFICE BOX 1654

San Simon 6 State Com, No. 1

PHONE 505 393.5396

FIELD:

HOBBS, NEW MEXICO 88240 .

CASE No. 7128

COMPANY: HNG 011 Company

8:40

EXHIBIT No. 9 b.

7454

Undesignated - Morrow CHRONOLOGICAL PRESSURE DATA ELASPED TIME SURFACE PRESSURE DATE STATUS OF WELL BHP @ (-9474) TIME HRS. MIN. TBG 1980 13124' PSIG 10/23 Shut in 9.0 days Run Static Gradient to 10000' 12:30 PM -10/31 Shut in 17.0 days 5660 Dual 7460 Run Static Gradient to 11371' 1:00 PM 5668 DWT Started 1st Rate Dual 7551 1:15 15 5668 Finished 1st Rate 7551 2:15 1 00 36Ò2 & Started 2nd Rate 7478 Finished 2nd Rate 3:15 & Started 3rd Rate 5777 7431 Finished 3rd Rate 4:15 & Started 4th Rate 00 5010 7350 Finished 4th Rate 5:15 00 4712 & Fished Bombs 7288 Flowing. Run Bombs to 11371' & Shut in for Buildup. 6:40 00 Shut in 7304 7:10 30 7491 7:40 00 7491 8:40 00 7481 9:40 00 7481 10:40 00 7477 11:40 00 7463 12:40 6 11/1 00. 1:40 AM 7463 7 00 7458 2:40 8 00 7454 3:40 00 7449 4:40 10 00 5:40 7440 11 00 7431 6:40 12 00 7:40 7421 13 00 7417 8:40 14 00 9:40 7417 15 00 7421 10:40 16 00 7421 11:40 17 00 7426 12:40 18 00 7426 1:40 19 00 7435 2:40 20 00 3:40 7435 21 00 7440 4:40 22 00 7440 5:40 23 00 7449 6:40 24 00 7449 7:40 25 00 7449

3

00

WELL: San Simon 6 te Com. No. 1

	PAGE: 2						
DATE	STATUS OF WELL	TIME	ELASPED HRS.	TIME MIN.	SURFACE TBG	PRESSURE CSG	BHP @ (-9474) 13124'PSIG
	Shut in	9:40	.27	00			7454
	11	10:40	28	00	-		7463
	10 m 10 m 10 m 10 m 10 m 10 m 10 m 10 m	11:40	29	00	••	-	7463
•	# .	12:40	30	00			7463
11/2/80	11	2:40 AM	32	00			7476
		4:40	34	00	**		7477
	11	6:40	36	00			7435
	***	8:40	38	00			7491
	11	10:40	40	00	-	•••	7500
	8 11	12:40	42	00	- .	. -	7505
	11	2:40 PM	44	ÓΟ	- ,	-	7509
	ff .	4:40	46	00			7514
	П	6:40	48	00	**	-	7519
	11	8:40	50	00	_ • • • • • • • • • • • • • • • • • • •	-	7526
	III .	10:40	52	00	- ,	•••	7532
	H 🙀	12:40	54	00	_ '	· _	7537
11/3	11	2:40 AM	56	00	-	·	7546
,	11	4:40	58	00	<u> -</u> 1		7551
•	ti	6:40	60	00	- Age	-	7556
	10	8:40	62	00	.	_	7564
		10:40	64	00	•••	+3	7569
		12:40	66	00	_	3 7	7584
	11	2:40 PM	68	00	-	· ·	7584
	shed Bombs & Run		1. A				
, St	atic Gradient	4:40 PM	70	00	5696		7584

JAAREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-8274

HOBBS, NEW MEXICO 88240

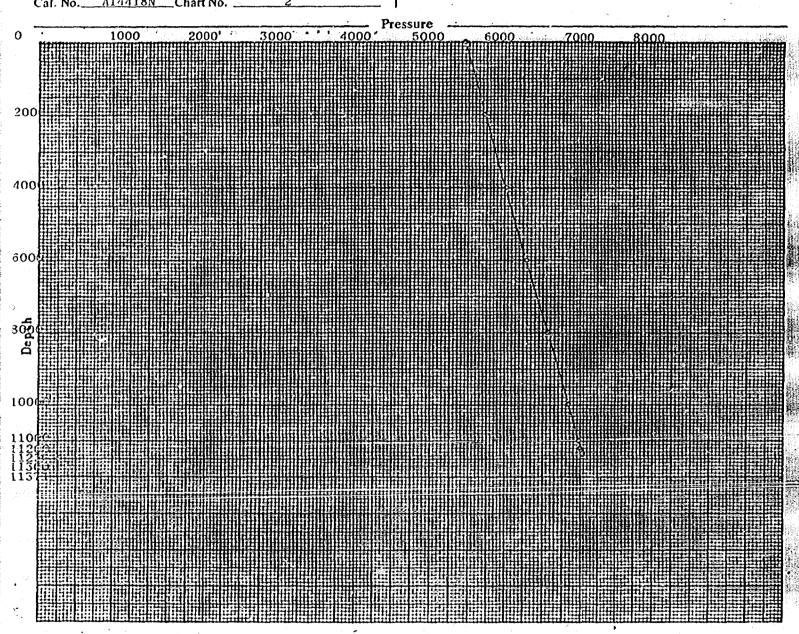
OPERATO	R HNG Oil	l Company	
		gnated	
FORMATIC	ON Morrow		· ,
LEASE	San Simor	1 6 State Co	m_WELL#1
COUNTY_	Lea	STA	TE New Mexico
DATE	11/4/80	TIN	AE 4:40 PM
Status	Shut ir	<u> </u>	
Test Depth	11371'		
Time S. I.	70 hrs.	_Last test date	10/31/80
Tub Pres.	5696	_BHP last test	7551
Cas. Pres	Dual .	_BHP change	33# Gain
Elev.	3650'KB	Fluid top	None '
Datum	(-9474) **	Water top	None
Temp. @	172 F	Water top Run by	JSI #20
		Charl No	9

BOTTOM HOLE PRESSURE RECORD

Depth		Pressur 5696	e	Gradient
0000				-
2000		5978		.141
4000		6258		.140
6000		6538		.140
8000		6814		.138
10000		7085	•	.135
11000		7220		.135
11200		7242		.110
11250		7251		, 180
11300		7260		.180
11371		7269		.180
13124	(-9474)	7584	* **	(.180)
		. <u>2016</u> (2016)	a call the medical	

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



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FILE		WELL						COMMISSI LREPORT	ND LOC	State	X	1.	·co [
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LAND OFFICE		7								LG 893	& T.G	3609	
OPERATOR		1		-						TITT	1777	111111	1771
L.)							\mathcal{L}	ASE NO	7128			111111	IIII
10, TYPE OF WELL										7, Unit Ag	coment L	lamai	
which was a second or an arrangement of the second		ic. X	GA S		DAY	. [THER	•					45
b. TYPE OF COMPL				, ,,		-				8, Form or	Losso No	In.a	
weight o	مدمل مدر	PENL	0.4.0		CSVA.	<u>)</u>	THER			San S	lman_6	State	Can
2. Name of Cycrator										9. Well Mai		5-1	- 001
NNG Oil Con										10. Fivis o			
										10. 11013 0	nd Pcol,	or Wildean	ı
P.O. Box 22	6/, Midlan	d, Tes	kas 7	9702		 				karyada	Welfe	amp 🐳	~~~
4, Eccanon of non				•					•	M/M		111111	////
		1000		*:	o .		gent of					11111	IIIi
UNIT LETTER H	LOCATED	_139n_	FCC7	FROM THE _	_Norti	777	Tim	7777	TTTTTT	1 L. County	77777	444	44
Fact	4		225	2.5	:		11111				8	11111.	////
THE East LINE O	is, Dute T.D.	Heochen	17, Dat	cc. 35	Leady to	Prod.)	18. Ele	ALL Englished	RAB RT	Lea 12	Elev. Co	LLLLL.	'777'
8-10-80	10-4-8			-31-80		,		528.81 G					
20, Total Depth		7	T.D.		If Multip	le Compi	., }jow	23. Inter	rols , Hote	y Tools	3628	Tools	
13,300	13	217'			Muny	2	•	Drille	ed By i			•	
24. Producing Interval			op, Bolto	:n, Name	·····				<u> — — 4 — - 4</u>	13	5, Was D	irectional	Surve
								á			Made		
11,132 - 11	,154 (Wolfe	amp)					•	, i si			No		
26. Type Cleatric and					· · ·					27. V	os Well C		
Dual Laterle	og BHC Sont	c, Co	mpensa	ted Neu	itron	Formai	tion	Density			No		
28.				SING REC							7/		
CASING SIZE	WEIGHT LE	./FT.	DEPT	H SET	ног	LE SIZE		СЕМЕ	NTING REC	ORD	AMO	טאד פענ	LED
13-3/8	48#		108	5	17-	1/2		1450	x_ClC		C1	rc	
9-5/8	36#		568	7	12-	1/4		00 C1C 8	2950 P	cesette	lite		
7	23#		11014	~	8-	1/2	41	00 paces	etter 1	te_&_357	CIH		
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29,		LINER R		حبت نبت				30.		UBING RECO	RD		
SIZE	тор	ВО	TTOM	SACKS	EMENT	SCRE	EEN	SIZE	OE.	PTH SET	Ρ/	ACKER SE	ĖT
4-15 & 5"	10,782	13,	300	400	ClH			2-3/8"	10,	82!	10,	7821	
	·	ļ,				T.;		1			<u> </u>		
31, Perforation Record	finicital, seze at	a namber	,			32.		and the state of		CEMENT SQU			
11 100 11	15/ / 60/	• • •						TERVAL	 	NT AND KIN			<u></u>
11,132 - 11,	154 (.38"	12)		•		-	32	11,154	-3 000 -ga	1s-15%-s	pearh e	:ad	
						 			acid-				
		-5,				 			 			•	
33.					PRODL	JCTION			.				
Date First Production	1'rod	etton Me	the (Flor	cing, gas l	ift, pampi	ng - Size	and ty	he bamb)		Well Status	Prod. or	Shut-in)	
11-1-80		Lowin	ă.	::::				; *s		CT			
Pate of Test	Hours Tested		ke Size	Prod'n.		ावरा — ॥	•	Gua - MCI	Water	- Bri.	Cas - 011	Ratto	
11-1-80	4	١٩	/64"	Test Fe		67_9	3	84.3			12/0	<u> </u>	
Flow Tubing Press.	Costna Pressu	e Calc		<u>ី (សា = អ</u> ា	1.		- :::::		iter - Hul.	onc	ruvily ~	API (Corr.	.,
2850	<u> </u>		·	407	.58	C	505.6		_0		6.90	: 	
34. Disposition of Gus	(Sold, used for fu	ch venten	l, etc.)						Test	Witnessel By			
Vented						·							
35. List of Attachments								-				•	
Log attached							<u>. 29</u>						
36. I hereby certify that				of this for	m is truc	and com	plete to	the less of	my knowledg	and laters.			
ρ	1 1.0	1-	1		* #	. Land				• 1			•
KHA	11: 11/1/	116.10)		102		A 777 /	21 0 -10		12-	15-80		

A. Gildon Tirus Regulatory Clerk

DATE 12-15-80

INSTRUCTION'S

INSTRUCTIONS

This form in to be filled with the appropriate District follows of the Communition and Interthen 2h days offer the completion of any newly-diffed or desponent with firstless that to accompanded by one copy of all electrical and reduced trips can on the well and a number of all special tests conducted, thelp firstless that the trips that the necessary desponent following different wells, the vertical depths shall also be reported. For motivate completions, there is through 34 shall be reported for each zone. The form is to be filed in quintipalicate except on state land, where rix copies are required, for little 195.

	•		ATT, FORMATION TOPS IN CONFO utheastern New Mexico						ew Mexico	
T. An	hv .		T. Cunvon	7	ciO 1	Altimo	·	T.	Penn. "B"	
T. Sal	1		T. Strawn11631		. Kidl	arki-Frui	tiand	T.	Penn. "C"	
			T. Atoka12128							
T. Yo	tes		T. Miss	1	r. Cliff	House .		Т,	Leadville	
T. 78	livers		T. Devonian	T	Γ. Mene	fee		 1'.	Madison	
T. Qu	een		T. Silurian	1	. Poin	t Lookou	!	т.	Elbert	
T. Gre	yburg		T. Montoya	T	. Manc	os		Τ.	McCracken	
			T. Simpson							
			T. McKee							
			T. Ellenburger							
			T. Gr. Wosh							
			T. Granite							
			T. Delaware Sand							
T. Abo	·		T. Bone Springs 8360	T.	. Wing	MC		Т.		
			086 τ. 3rd/" 10794							
T. Per	31L	11	472 T. Morrow Line 126	154 τ	. Pem	i an		Т.		
T Cisc	o (Bough	C)	T. Morrow Clastics	T.	. Penn	"/\"		Fig.		
·			12828 OIL OR	GAS S	ANDS	OR' ZO	HES	17		
No. 1, 1s	um. Wlf	co 11,1	32' to 11,154'						.to	14111 4 24 (144 21 144 214 24 24 24 24 24 24 24 24 24 24 24 24 24
No. 2, fr	om	***********		N	o. 5, fro	m	1005,000 000 000 000 000 000 000 000 000	······	.to	***************************************
No. 3, fre	om			No	o. 6, fro	D.,		· ·	,to	********
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No. 2, 110	in						lcct.	*************	-0-07 00-00 00-00-00 00 00 11 1	
No. 3, fro	m	••••••••	10		*		fect.	* >	•	***************************************
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_	0200	0260	Califol Charles					e c		
0	8360	8360	Gravel & Redbeds	11	.]		1 1			
8360	10794	2434	Bone Springs	[[126		
10/94	11086	292	3rd/ Bone Spring Sand					A S	ં શ	0
11086	11472	386	Wolfcamp Reef					ά≥	0 3	
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, 12128	112654	526	Atoka	li li					- m - 41	-+1
12054	12828	174	Morrow lime	11				¥ E	. m . 1	1 i
12828	13300	472	Morrow Clastics		- 1			BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	EXHIBIT NO. 712.8 d by Hou	υ
				-				《 公园	(삼 대 #	jat
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32	[İ		j	-			2 2 2	EXHIBIT N CASE NO. 1128 Submitted by Ho	Hearing Date

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	Ī	lyle leal		 -											C.	15E No	.7128
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	7	OFFUNY									i ricial	10/	31/80		İ		
	1	HNG Oi	l Compar	117	•		. 1,	onnection			•	1	01/00		├		
	Ti	col	Compan	<u>.,y</u>	-5			N	one						1		
		Undesig	nated					otheritor	•		7.5						
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3		0.72	556		.50		927	Specifi	c Gravito	Flowing I	~! !			0.65	54	XXXXX	XXXX
4		0.63	541		.46	0.	921	Critico	Prossure	, mand t		73	XXXX	<u> </u>			
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۸ı۰	Absolute Com Flow 17849																
									. Meld # 1	5.025 .	uele «'	Slope &	e ^	0 _			
Per	ziou.	a: * 80	TTOM HO	LE P	RESSU	RE *	(-9/	741 1	71011		- 114 01	aloba 6	30	51	_',	Slope, n_C	0.824
		63	ТТОМ НО .54 В О /	D _	10.59	BD I	DIPT	C TEC	3164.	OSED I	OR PI	PESSU	RE CA	LCUI.	ATIO	NS	
		to a contract of					~ 17 1 1 1)	A 162	<u> </u>			<u> </u>					
vtt	*4 O V 1	d Hy Comm	ission;		Conducte	d lly:		•	100	lculated H							,
					and the second of the				, -0		Y:	_		-			Ł

WELL: San Simon 6 State Com, No. 1 LOCATION: H 6 COUNTY: Lea October 31, 1980 DATE: FORMATION: Merrow ABSOLUTE OPEN FLOW 34.84.23

COMPANY:

Q, = 1500MCFO; LOG Q, = 3.87506 Q2=1125 MCFO; LOG Q2=3.05115 N=0.82391 = 0.824

Q-MCFD

- · •				*	~		
NO. OF COPIES RECE	IVED			,			C+105
סודט פו דט פו דט פו	И]			2,4		.ed 11-1-8
SANTA FE) NE	W MEXICO OIL C	ONSERVATIO	N COMMISSION	i i	ite 1 yr e of Leise
FILE			LETION OR RE			ND LOG	
U.S.G.S.		}				5, 51 ite C	A G Cas Lease No.
LAND OFFICE		1				I.G. 89	3 & LG 3609
OPERATOR		j				/////	
		·····					
MITTER OF WELL			- 030			7. 16tt A	reegent lime
eleganistic tagging		in the second	T. K.				
INTYPE OF COMPL	ORK	. ا	es [aux. [- -1		1.5	r Leason Come
	veal oce	PEN BA	es Diff.			San S	imon 6 State Com
						ye	¹•.
HNG Oil Com					<u> </u>		un i Foot, or Milseat
1	1	Toyco 7	9702	15		ĺ	•
P.O. Box 22	or, midiano	i, exas /	9/02		·	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	Morrow
				•			
H		1980	FROM THE Nort	h .	660		
UNIT LETTER	LOCATED	1700 , , , ,	FROM THE HOLL	TITITI TO	rrrivir	CC. 160% (1)	777711444
THE East LINE O.	6	TWP. 225	SEE. 35E NUP			Lea	
15. Date Spudded			ie Compi. (Realy to	Prod. 18.	Lievations (DF, R.	KII, RT, GR, cic.) 13	Elev. Caphtechart
	10-4-8	1 :	-31-80		3628.8' GR		3628.8'
810-80 20, Total Depth	1	ng Hack T.D.		rle Compl., How		Hetury Tools	. Cable Tools
	1		Many		Drilled E	y	
24, Producing Interval		3, 187'	oir., Nanie	_2		×	25. Was Directional Survey
			\$ **		÷	į	1.tade
10 110 110	115 /1/						19_
13,110 - 13 26. Type Electric and	LII (MOTTO Other Logs Hun	w)				27,	NO Sas Well Cored
- I to the second of the second			tad Nautran	Formation	Dong i tu	1	
Dual Laterlo	og our sont		SING RECORD (Re				No
CASING SIZE	WEIGHT LB	FT. DEPT	H SET HO	LE SIZE	CEMENT	ING RECORD	AMOUNT PULLED
13-3/8	48#		085	17-1/2	1450 sx C	ic	Circ.
9-5/8	36#			12-1/4		2950 Paceset	
7"	23#		014	8-1/2		etter lite &	
-	-					THE TAXABLE PARTY	
29.	Į.	INER RECORD			30.	TUBING REC	ORD
SIZE	TOP	воттом	SACKS CEMENT	SCREEN	. SIZE	DEPTH SET	PACKER SET
4-1/2 & 5"	10,782	13,300	400 C1H		2-3/8"	10782	11,332
31, Perforation Record	(Interval, size one	I number)		32. A	CID, SHOT, FRA	CTURE, CEMENT SO	VEEZE, ETC.
Ì		# 50 1 18		DEPTHI	NTERVAL	AMOUNT AND KI	ID MATERIAL USED
13,110 - 13,	117 (.38"	8)		13,110-	13,117	3000 gals 7-1	/2% MS Acid
ł		•					
	9						
			<u> </u>	1	I		
33.				UCTION	<u> </u>		
Date First Production	l'ro.lu	ction Method (Flo	wing, gas lift, pump	sing - Size and	type pump)		(Prod. or Shutsin)
10-13-80	sa saab la saasii	Flowing	<u></u>			Shut	
Date of Test	Hours Tested	Choke Size	i rodin, for Test Period	CII — L.L.	Gos - MCF	Water - Bbl.	Gas - Ott Ratto
10-13-80	24	10/64		70	2300	244	33
Flow Tubing Press.	Casing Pressure	Gaireland 2 From Rate	i- Cal ⊕ Hali (1. 1.	Clus - Ma	Water	and the second s	Cravity - APT (Con.)
	4500 -						
34. Disposition of Gas	sold, used for fue	i, vented, etc.)				Test Witnessed B	y
Vented	* * * * * * * * * * * * * * * * * * *	<u> </u>		1			
35, List of Attachments	A SEAR OF SERVICE AND ADDRESS.	ing. Salahan kalendar		a aka ⊒i		and the second s	
Form C-122,	Inclination	Report, a	nd 1 set of	logs- The	other set	or Logs was s	ent to Santa Fe
36, I hereby certify that	the information si	wonn on both side	s of this form is ten	e and complete	to the best of my	knowledge and alon	g with Form C-107
	73.						- I
$\mathcal{D}_{\cdot \cdot \cdot}$	Ve		ldon title <u>Re</u>		, e		2-3-80

INSTRUCTIONS

This fam is to be lifed with the harrists District Office of the Constantin not lifter these days after the completion of an newly-lifted or deep and I well. It shall be accompanied by one copy of all electrical and relocativity less run on the well and a summary of all special tests conducted, facts line will stance tests. All daythe reported shall be morable to be the case of breathandly duffed wells, two vertical depths shall also be reported. For multiple completions, to make the mile at the like reported for each some. The term is to be filled in quantificate except on state tend, where six copies are required. For bulled 1145.

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T. Aut	18	2.8.5	Υ.	Canyon			T. Oio	Δtame			T. Penn.	"B"		
T. Sale	· ,].	Strawn _	11631		T. Kirt	land-Frui	tland		T. Penn.	"C"		
					12128									
					n									
T. Que	·cn		'n.	Siturian .		· · · · · · · · · · · · · · · · · · ·	T. Poir	it Lookoi	t		T. Elber	ـــــ		
T. San	Andres_		т.	Simpson			T. Gall	up			T. Ignaci	io Qizi	e	
T. Give	neth		т.	МсКее 💴			Dase Gre	enhôrn .			T. Granit	ie		
					ger									
T. Blin	nebry		т.	Gr. Wash	1		T. Morr	ison			T			
T. Tub	h		Т.	Gronite _			T. Todi	lto			т			
T. Drin	ikard 🚢		Т.	Delaware	Siend		T. Entr	ada			T			
			т.	Bone Spri	ings 8360		T. Wing	ale			т			
T. Wolf	reamp Re	eef 1108	<u>36</u> т.	_3rd/_1	Bone Spri	ng_107	79.4 Chin	le	·		Т			
T. Pen	n. ———	114	72 T.	Morro	w Lime 1	2654_	T. Pem	nian			т		 -	
T Cisc	o (Bough	C)	Т.	Morros	y Clasti	cs 128	£8 Penn	L "A"			T. /			
				•	01L 0	R GAS	SANDS	OR ZO	NES		1/			
No. 1, fr	om Mol	row 131	10	.to13.1	1.1.7	,,,,,,,,,,,,,,	No. 4, fr	ao						*********
No. 2, fro	m	*******		.to		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No. 5, fr	om	*********		lo	*********	· · · · · · · · · · · · · · · · · · ·	
No. 3, fro	m			.to,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No. 6. fr	om			to		***********	
		•											:	
					IMPO	ORTANT	HATER	SAND	S					
Include d	ata on rai	e of water	inflow an	d elevation	to which wa	ter rose i	n hole.							
No. 1, fro	m Non	<u>e</u>			to			***********	Sect.					*********
No. 2, fro	m				to		,		fcct.	*******				
					to			~						
•					to									
No. 4, 110	m	***************************************			N RECORD (•••••••	~~~	•••••••	**********
		E	<u> </u>			(7110,1110		1		,				
From	То	Thickness in Feet		Form	nation		From	To	Thickness in Feet	<u>~~</u> :		ormutio STATES	n Metrosop	87
0	8360	8360	Grave	el & Red	dheds]	1		1-9		ľ
8360	10794		N.	Springs				[1		ا جہ	1		ř
10794	11086				pring San	.a		1		liF	~ ō ~	. 1		
11086	11472		Wolfe	camp Ree	ef				[. [3 /·		0	Į.
11472	11631			sylvania		1				∦ <	र ≥ ज		10	4
11631	12128		Strav			li li		}]]	- [5	ァ <u>ロ</u> ・.	4.	티크	
12128	12654	526	Atoka				•	i.		C	K S Z	ام		4
12654	12828			w Lime		angadilla		1.00.00		li i	iř E	ტ 	-뜀	a Basila sa 1
12828	13300			w Clast		1		[DEFORE EXAMINER STAME IS OIL CONSERVATION DIVISION THE EXHIBIT NO. 40	M	Submitted by Head	
	1000	''-			4.	-					£ 55	$\boldsymbol{\pi}$	र इ	
	-,								ļ			CASE NO. 7	Submitted by Hearing Date	{
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		1				· .			Ç.			AS	d g	t
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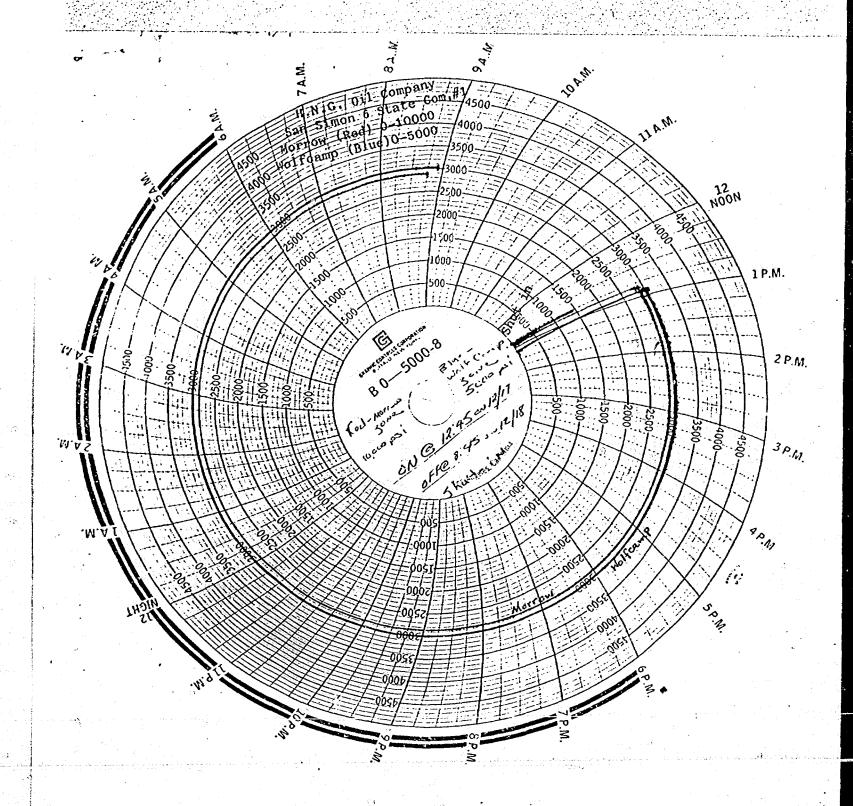
NEW MEXICO OIL CONSERVATION COMMISSION

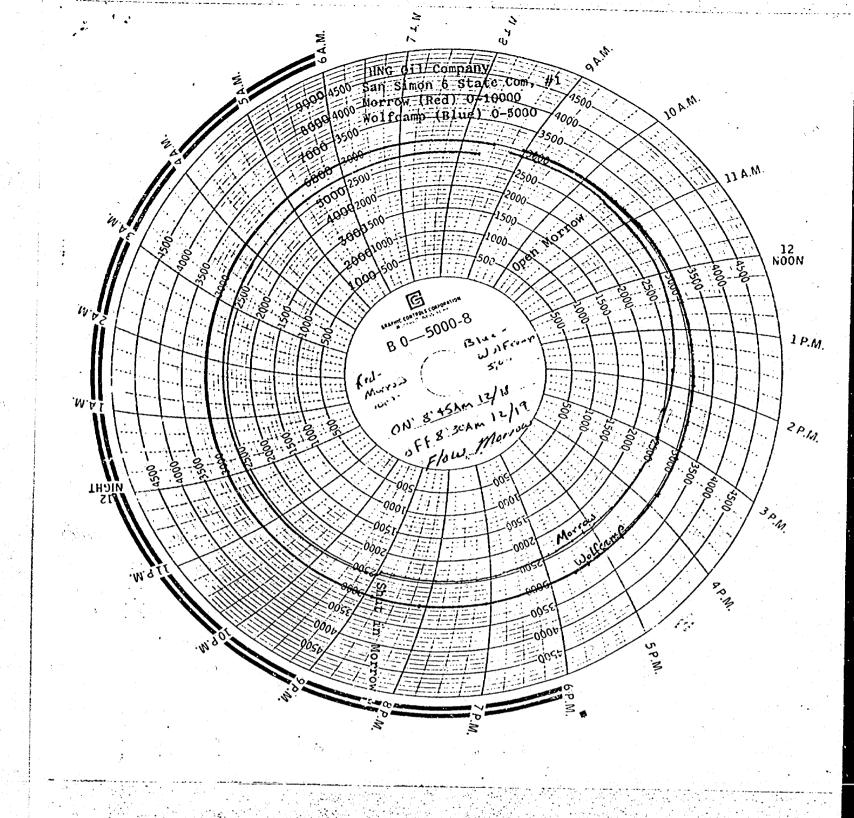
EXHIBIT No. 9 E

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

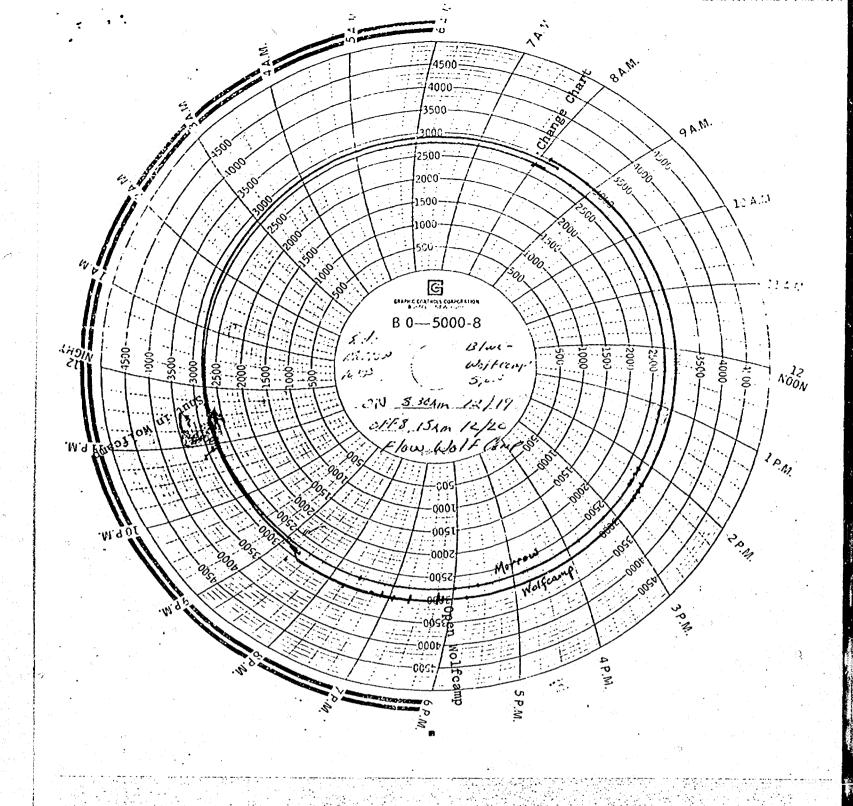
CASE No. 7128

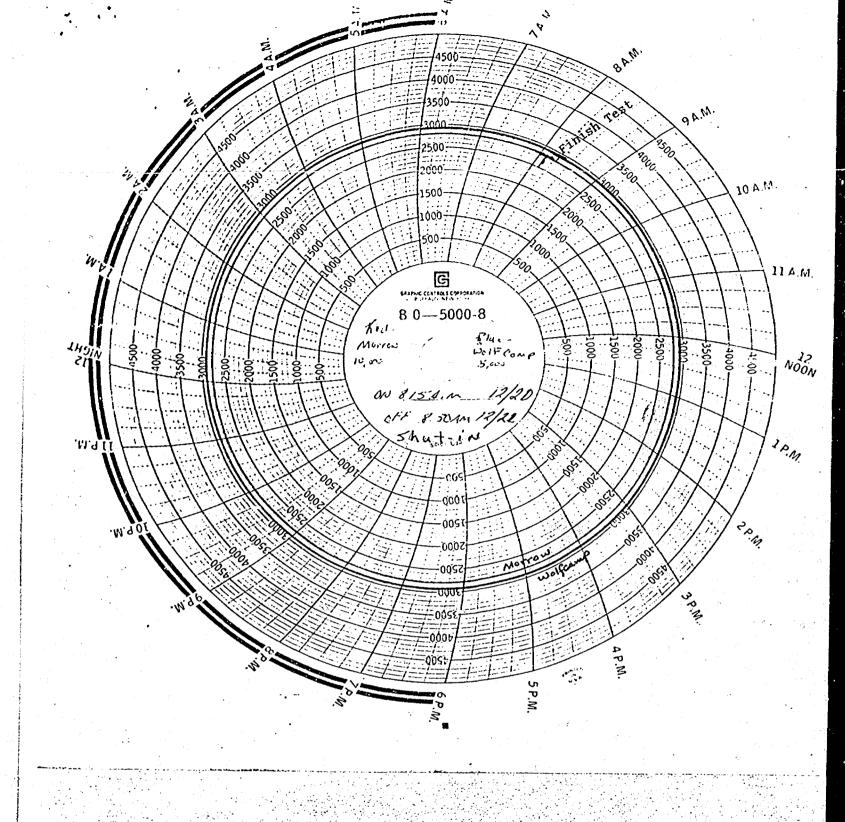
Operato	r ING Oil Compai	ny		Lease San Sim	on 6 Stat	e Com.		o. 1
Location of Well	n Unit	Sec 6	Twp 22s		lge 35e		County	Lea
01 4677	,	ervoir or Pool	Type of Pr		of Prod Art Lift		Medium r Csg)	Choke Size
Upper			011	Flo		Tbe	*	8/64
Compl Lower	Wolf_Camp			Flo				8.5/64
Compl	Morrow	7	Gas		W	Tbg.		0.0/04
				rest NO. 1			**	
		t (hour, date):	•				Upper	Lower
	-	, date):					upletion	•
•		e zone producing						
		g of test			*			5697
		No)	•					Yes
		ing test				2.5		5697
Minimum	pressure dur	ing test			• • • • • • •	•••••	3040	4660
Pressure	at conclusion	on of test		••••••	• • • • • • • •		3040	4820
Pressure	change duri	ng test (Maximua	n minus Minim	ium)	• • • • • • •		0	1037
	· · · · · · ·	an increase or a			m-1-7 m2-		lone	Decrease
Well clo	sed at (hour,	, date): 9:00	PM 12/18/80		Production		10.5 hou	rs
Oil Prod During T	uction 'est:5	_bbls; Grav	Gas ; Duri	Production ng Test <u>52</u>	1025	MCF;	GOR	104205
Remarks_								
						19		
			FLOW TE	ST NO. 2				
Well ope	ned at (hour,	date):6	:30 PM	12/19/80			pper pletion	Lower Completion
Indicate	by (X) t	he zone produci	ng	• • • • • • • • •			X	
Pressure	at beginning	of test				3	040	5640
A CONTRACTOR OF THE SECOND	يا دراي المحاد يبيني عقواة بيلاقيه	lo)	er lakk ring turk.	and the second			Yes	Yes
		ng test	* ************************************				110	5695
· * · · · · · · · · · · · · · · · · · ·		ng test					900	5640
		on of test					900	5695
		.					210	55
	- Land - 194	g test (Maximum				Ī	ncrease	
		n increase or a		1	'otal time	on	ecrease	Increase
Oil Prod	uction	date) 12:	Gas Pi	roduction	roduction		hours	
During T	est: <u>24</u>	bbls; Grav. 46.	9 ;During	g Test8	34113	_MCF; Go	R 3504	
Remarks_								
Lhereby	certify that	the information	n herein cont	ained is tr	ນ ue and co	molete t	the be	st of my
knowledge					HNG OI			
Approved			19		2	2.584.12		
New Mex	ico Uli Conse	rvation Commiss:	ion	Ву	JARREL	SERVICE CO	s, INC.	
By				Title	Agent			
Title			<u> </u>	Date	Decemb	er 22, 1	980	A many commences that it





and the second s





NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

Name of party making report	of lawful age and having full
knowledge of the facts hereinhelow set out do state:	
That I am employed by HNG Oil Company	in the capacity of
Drilling Superintendent , that on	10-8 19_80
I personally supervised the setting of a 4-2" TIW PBR Make & typ	c of packer
in HNG Oil Company , San Simon 6 Operator of well L	State Com.
Well no. 1 located in the Und. Wolfcamp	field,
Lea county, state of NM	, at a subsurface depth of
10, 782 feet, said depth mensurement	having been furnished me by
drill pipe measurement	
That the purpose of setting this packer was to effect a scal in the	annular space between two
strings of pipe where the packer was set so as to prevent the comming	ing, in the bore of this well,
of fluids produced from a stratum below the packer with fluids produc	ed from a stratum above the
packers that this packer was properly set and that it did, when set, ell-	ectively and absolutely scal
oll the annular space between the two strings of pipe where it was s	et in such manner as that it
prevented any movement of fluids across the packer.	
District Drilling Supe	rintendent
December 9, 1980	Linguista de la co rre

NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

rank brownson	, heing	of lawful age and having full
Name of party making repo	11	
knowledge of the facts hereinhelow set out do s	state;	
That I am employed by HNG O11 Co	ompany	in the capacity of
Drilling Superintendent	, that on	10-8 , 19 80
I personally supervised the setting of a4"	TIW PBR	of packer
in HNG Oil Company	, San Simon 6	State Com.
Operator of well Nell no located in the	Und. Morrow	ase name lield,
Lea county, state		_, at a subsurface, depth of
11,332 feet, s	nid depth mensurement l	aving been furnished me by
drill pipe measur	ement .	
That the purpose of setting this packer was t	o effect a seul in the	annulur space between two
strings of pipe where the packer was set so as to	o prevent the commingli	ng, in the bore of this well,
o ki ki ki ki ki ciko di daga 1914 da ki d		
of fluids produced from a stratum below the pac	ker with fluids produce	ed from a stratum above the
packer; that this packer was properly set and the	at it did, when set, effe	ctively and absolutely scal
off the annular space between the two strings of	of pipe where it was so	t in such manner as that it
prevented any movement of fluids across the pack	ccr,	
	1Signoture	Vices of s
Distric	ct Drilling Supe	
•	(Tile) per 9, 1980	

JAPPEL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-8274

HOBBS, NEW MEXICO 88240

OPERATOR HNG Oil Company	
FIELD Undesignated	
FORMATION Morrow	
LEASE San Simon 6 State Co	
COUNTY Lea STA	
DATE 12/17/80 TI	ME 9:30 AM
Status Shut in	
Test Depth11371'	
Time S. I. 50 days Last test date	10/31/80
Tub Pres. 5705 BHP last test	7551
Cas. Pres. Dual BHP change	5# Gain
Elev. 3650 KB Fluid top	None ·
Datum (-9474) ** Water top	None
Temp. @ 162°F Run by	JSI #10
Cal. No. A18473N Chart No.	

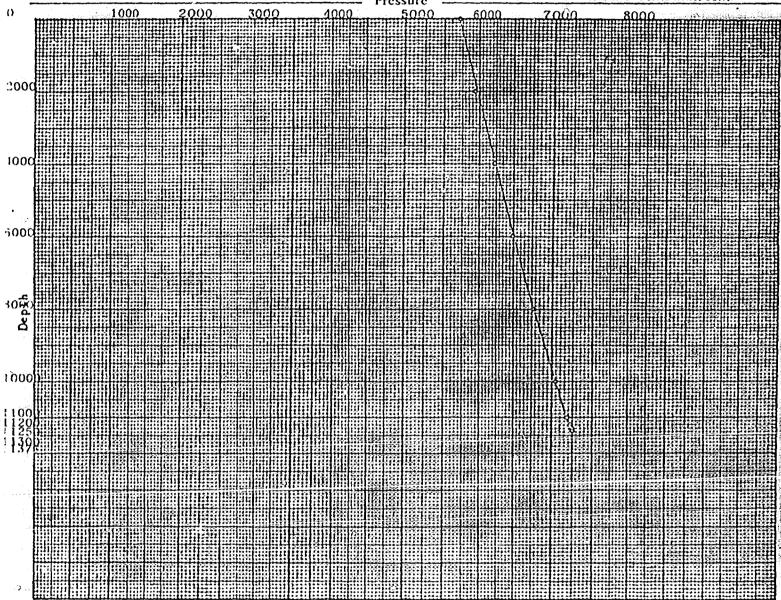
BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
O	S 5705	-
2000	5944	.120
4000	6218	.137
6000	6492	.137
8000	6768	.138
10000	7044	.138
11000	7182	.158
11200	7210	.140
11250	7219	.180
11300	7228	.180
11371	7240	.180
13124	(-9474) 7556 * **	(.180)
	* FXTRAPOLATED PRESSIDA	•

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS

1000 2000 3000 4000 5000 6000 7000 8000



JAPREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 - 393-8274

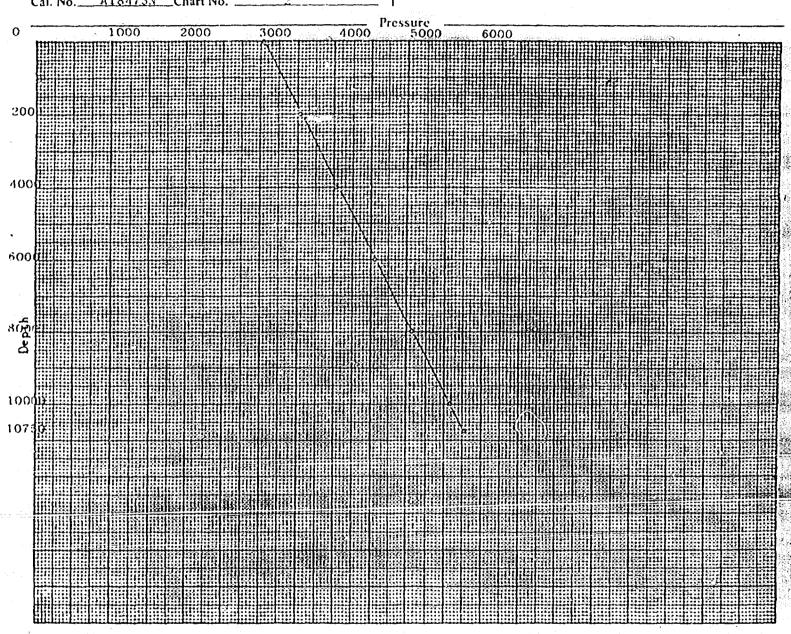
HOBBS, NEW MEXICO 88240

BOTTOM	HOLE	PRESSURE	RECORL

OPERATOR	HNG GIL Company	
	Undesignated	
FORMATION _	Wolfeamp	
LEASESan	Simon 6 State Co	om_WELL_#1
COUNTY	<u>Lea</u> STA	TE New Mexico
DATE	12/17/80 TH	ME 12:15 PM
	Shut in	
Test Depth	107501	
Time S. I. 16	days Last test date	11/4/80
Tub Pres. 303	6 BHP last test	5864
Cas. Pres. Dua	BHP change _	14# Gain
	O'KB Fluid top	
Datum(-7	493)**Water top FRun by	None
Temp. @ 145	FRun by	JSI_#10
Cal No. A18.	473N Chart No.	•

Depth	Pressure	Gradient
0	3036	
2000	3538	.251
4000	4048	.255
6000	4558	.255
8000	5070	,256
10000	5584	,257
10750	5777	.257
11143 (-7493)	5878 * **	(.257)

- * EXTRAPOLATED PRESSURE
- ** MIDPOINT OF CASING PERFORATIONS



HNG OIL COMPANY - SAN SIMON '6' #1

SUMMARY OF RESERVOIR DATA

BOTTOM-HOLE PRESSURE SURVEY

WOLFCAMP ZONE:

PERMEABILITY, k = 9.6 md FLOW EFFICIENCY, kh/µ = 397.1 md-ft./cp SKIN FACTOR, S = -4.7

MORROW ZONE:

Data not determined since buildup data were unreliable due to an apparent changing liquid level and fluid gradient between the pressure bombs and the midpoint of perforations (datum).

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
HUG EXHIBIT NO. 10
CASE NO. 1128
Submitted by Hour

NNG 011 Company Anchor E. Holm/sh January 14,1981 CASE NO. 7128

EXHIBIT NO. 10

OUT COMPRISANTION DIVISION P. O. HOX 2086 SANTA FE, NEW MEXICO 87501

Form C-109 Revised 10-1-78

APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

NOTE: This is dis	form to to be file scorery to claimed	d and attachments for more than one	made In	eccredonce porata form	with the pravi Lings be filed	time of flut.	• 50 P.
HNG 011 Company	*		Address				
Leise Hone			Well Ho.	ROX 226	7. Midlan	ıd, Texas	79702
San Simon 6 State Com				<u> </u>	Lea	•	
Unit Letter H ;	1980	*2	_ Feet fr	om The	North	_ Line and	660
From the East Line of September 1 Control	ection 6	. Township	22-S		, Range	35-E	, имри
1. San Simon (Wolfcamp)	Ferferations	M erchant (W e	olfcam	p)	, 0	jo Chiso	East (Wolfcamp)
Wolfcamp Als "Afficient of the overy" Previous for This hell in this Pool?	11 132-1 ly l'sled l'Yes, c	54 t live Case of Filing		Date Well v	vas Spudded		7/81 Compl. Ready to Frod.
No Plugged B	act Death	Depth Casing Sh		8-10-1 Tubing Dep	30		10-31-80
13,300° 13,2 Cil Well Federated (Fest to be taken only				10.78	*	3628.8	Gr., DF, RKB, ET, etc.)
•				0			
407.58 Bbls, Oil Per Day Bo		•					
In 4 Hours: Gas Produ IEAREST PRODUCTION TO THIS DISC	otics Puring Test:	505.6 MC	F; Natio	oroducine or		flowing	
ol or vertical separation): Pool Name	Name of Producing	· · · · · · · · · · · · · · · · · · ·	Top of		Boltom		Currently Preducing?
East Gramma Ridge	Morrow	1 Loturation			1 .	-	
Notice to the Northwest Northwest	Subject Discovery	weil to the	Yestica Pool	Distance f			to Fraducific Interval this
The second second			L_1792		.5' subse		
REAREST COMPARABLE PRODUCTION Pool Name	(Includes pass and	d present oil or ga	s product		S pay or formati		Currently Froducing?
Gramma Ridge (Wolfcamp)			1132	· Y	11,33	5 !	Yes
Horizontal Distance and Direction from : 9810 feet Northwest	Subject Discovery 1	Well to the necres	t Well In	this Compar	able Pool		100
				ii.			
s "County Feep" Discovery Allowable Requested for Subject Discovery Weil?	If Yes, Give Name	e, Location, and E	Depth of A	lext Deepes	Oll Production	n in this Cou	nty
No	<u> </u>					<u> </u>	
			<u> </u>	-		167	
s the Subject Well Is Discovery Allo Hequested for oth Yes No.		es, Name all Such	Formatte	ons			
ries No							
IST ALL OPERATORS OWNING LEASE	ווא פאס אווודוא ז	E OF THIS WELL	_ (Attach	additional s	heet if necesso	ary),	
ВМАИ						DORESS	
Exxon Company, USA	an carang ne siring e	ing til som en en en en en en en en en en en en en	.Box 1	700, Mi	dland, Te	xas 7970	02
Phillips Petroleum	•		Phill	ips Bld	g. Odessa	. Texas	79760
Northern Nat'l Gas Co.			402 17-11 m				
Toyooo					tion along	da	<u>, Texas 79701</u>
Texaco, Inc.			P.O. Box 3109, Midland, Texas 79702				
Amerada Hess Corp.		a l	2207 W. Industrial, Midland, Texas 79701				
Getty Oil Company		Box 1231, Midland, Texas 79702					
Amoco Prod. Co.					Midland		
ach evidence that all of the above opera- the subject well of a discovery well, of vision of such intent to wilting within to	ligible to receive o n days after receiv	discovery allowal	ole, must	notify the a	sald operators	who intende rice Office on	to object to the designation of the Santa Fe Office of the
temazia: a com	\$11-1-80			•	CA	SE N	lo.,7128
Branch Colon	X.					XHIBI	T NO. II
rely certify that all rules and regulation in the ray option that a boundide disco	s of the New Mexic very of a littlement to	CERTIFIC Oll Conservation	n Blyle aurre of	ion , have to old supply h	een compiled was been made l	tili, with resp n said well. I	

CERTIFICATE OF SERVICE

I hereby certify that I have this day mailed to all operators owning leases within on mile of this well, postage pre-paid, copies of the attached OCD Form C-109 of HNG Oil Company in accordance with the requirements of the Oil Conservation Division Form C-109.

Dated at Midland , Texas , this 7 day of January , 1981

Betty A. Gildon Regulatory Clerk

HNG OIL COMPANY

	•			
	DISTRIBUTION	4		>
	DISTRIBUTION SANTA FE		CONSERVATION COMMISSION	ON Fprm C-104
	, SANTA FE	REQUES	T FOR ALLOWABLE	"r Supergeden Old C-104 and C
		-	AND	Elfective 1-1-65
	LAND OFFICE	_ AUTHORIZATION TO TH	RANSPORT OIL AND NAT	URAL GAS
	Tolk	-		
	TRANSPORTER GAS	-		
	OPERATOR	-		
1.	PROBATION OFFICE			-
	Operator			
	HNG 011 Company		Andrew Control of the	
		50.500		
	P.O. Box 2267. Midland Reason(s) for filing (Check proper box	d. Texas 79/02	Other (Please expl	-/-t
	New Well X	Change in Transporter of:	0-74	ain,
	Recompletion	OII Dry G	ios 🔲	
	Change in Ownership	T T	ens ate	y ^{ro} ti
	If change of ownership give name and address of previous owner			
		14		
11.	DESCRIPTION OF WELL AND		Trind	
	Lease Name	Well No.: Pool Name, Including F	·	GL893 Ng.
	San Simon 6 State Com.	. 1 Und. Morrow	Loione	e, Federal or Fee State LG 3609
			225	
	Unit Letter H ; 1980	O Feet From The North Li	Ine and <u>660</u> Fee	et From The East
	Line of Section 6 To	waship 22S Range 3	35 E , NMPM, L	ea County
	Citie of section D	Amonto //D	<u> </u>	ea County
III.	DESIGNATION OF TRANSPORT			
	Name of Authorized Transporter of Oil		Address (Give address to which	ch approved copy of this form is to be sent)
	Western Crude Oil, Inc	C	Box 1142, Midland	
	Name of Authorized Transporter of Cas	singhead Gas or Dry GasX		ch approved copy of this form is to be sent)
	Texaco, Inc.		Box 3109, Midland	
	If well produces oil or liquids,	Unit Sec. Twp. Rge.	Is gas actually connected?	When
į	give location of tanks.	; H ; 6 ;22S ;35E	No	
	If this production is commingled wit	th that from any other lease or pool,	give commingling order numb)er:
IV.	COMPLETION DATA	Oil Well Gas Well	New Well Workover Dee	epen Plug Back Same Res'v. Diff. Res'v
	Designate Type of Completion		X	The same transfer of the same of
**	Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
- (8-10-80	10-31-80	13,300'	13,217'
	Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top O!1/Gas Pay	Tubing Depth
- [3628.8' GR	Morrow	13,110'	10,782'
-	Perfordions			Depth Casing Shoe
	13,110 - 13,117			11,014'
			CEMENTING RECORD	
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
1	17-1/2"	13-3/8"	1085'	1450 C1C
1	12-1/4"	9-5/8"	5687'	500 C1C & 2950 11te
ŀ	8-1/2"		11,014' 10,782 W/PBR at	400 lite & 350 ClH
L		2-3/8" Tbg.	9 (Sec. 2) (4) (4) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
	TEST DATA AND REQUEST FO	OR ALLUWABLE (Lest must be appointed for this de	fer secovery of total volume of lo pth or be for full 24 hours)	oad oil and must be equal to or exceed top allow
ſ	Date First New Oil Run To Tanks	Cate of Tees	Producing Method (Flow, pump,	, gas lift, etc.)
	ang Mg2 a sa a masa a d			
Ì	Length of Test	Tubing Pressure	Casing Pressure	Choke Size
- 1			• • • • • • • • • • • • • • • • • • •	
ľ	Actual Prod. During Test	Oil-Bble,	Water - Bols.	Gas-MCF
	GAS WELL			
	Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Į.	2300	24 hours	30	56.0
		Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
- 1	Poole progento	5668	Packer	10/64

OIL CONSERVATION COMMISSION

VI. CERTIFICATE OF COMPLIANCE

III.

IV.

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Bonga. S	O Done	>Bettv_	A. Gildo	n
0	(Signature)			
Regulatory Clerk	<u> </u>			<u> </u>
	(Title)			

(Date)

BY

TITLE .

APPROVED

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or despended well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111:

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.

NO. OF COPIES BLCEIVED	1				
DISTRIBUTION		CONSERVATION COMMISSION			
SAHTAFE		Form C-104 Supersedes Old C-10s and C			
FILE	KEWULJ	REQUEST FOR ALLOWABLE AND Superiedes Old C-1 Effective 1-1-65			
U.S.G.5.	AUTHORIZATION TO TE	RANSPORT OIL AND NATURAL			
LAND OFFICE	AUTHORIZATION TO II.	WAS OUT OIL WAD WATOWN	, GA5		
IRANSPORTER OIL GAS					
OPERATOR					
PROPATION OFFICE					
Operator					
HNG 011 Company					
P.O. Box 2267, Midla					
Reason(s) for liling (Check proper bo		Other (Please explain)			
New Well X	Change in Transporter of:		•		
Hecompletton	OII Dry C	7			
Change In Ownership	Custrighead Gas Cond	lensate	•		
change of ownership give name					
ESCRIPTION OF WELL AND) f race				
Lesse Name	Well No. Fool Name, Including				
San Simon 6 State Con	m. I Und. Wolfcam	Siste, Fede	LG-3609		
ocation	######################################		plate 10-100/		
Unit Letter H ; 19	80 Feel From The North Li	ine and 660 Feet From	The East		

Line of Section 6 To	ownship 22S Range	35E , NMPM, Lea	County		
ESIGNATION OF TRANSPOR	RTER OF OIL AND NATURAL G	AS	· · · · · · · · · · · · · · · · · · ·		
laine of Authorized Transporter of Ot	II (X) or Condensate 🗖	Address (Give address to which appr			
Western Crude Oil, In	IC.	Box 1142, Midland, Te	exas 79701		
one of Authorized Transporter of Ca	asinghead Gas 🗙 or Dry Gas 🗖	Address (Give address to which appr			
Texaco, Inc.	9	Box 3109, Midland, Te			
vell produces oil or liquids,	Unit Sec. Twp. Pge.	Is gas actually connected? Wi	hen		
e location of tanks.	H 6 22S 35F	l No			
	ith that from any other lease or pool,	give commingling order number:	•		
OMPLETION DATA	Oil Well Gas Well	New Well Werkover Deepen	Plug Back Same Res'v, Diff, Res'v		
Designate Type of Completion	on – (X)	Non-non-	Plug Buck Come fies 11 Still 1122		
ate Spuddod	Date Compl. Ready to Pred.	Total Dopth	P.B.T.D.		
 Fig. 1971 (2) 	The state of the s				
8-10-80 evaluans (DF, RKB, RT, GR, etc.)	Name of Producing Formation	13, 300 1 Top Oll/Gas Pay	13,217 Tubing Depth		
the property of the property of the control of					
3628.81 GR	Wolfcamp	11,132'	Pepth Casing Shoe		
			1		
11.132' - 11.154'	TURING CASING ANI	D CEMENTING RECORD	11,0141		
HOLE SIZE	CASING & TUBING SIZE	OEPTH SET	SACKS CEMENT		
THE WIND					
	. 	10051			
17-13 "	13-3/8"	1085'	1450 C1C		
17-½ " 12-½"	. 	5687'	1450 C1C 500 C1C & 2950 Lite		
17-1/2 "	13=3/8" 9=5/8" 7"	5687' 11,014'	1450 C1C 500 C1C & 2950 Lite 400 lite & 350 C1H		
17-날 " 12-날" 8-1/2"	13-3/8" 9-5/8" 7" 2-3/8" Tubing	5687' 11,014' 10,782' W/PBR at 10,78	1450 C1C 500 C1C & 2950 lite 400 lite & 350 C1H		
17-½ " 12-½" 8-1/2" EST DATA AND REQUEST FO	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be of able for this de	5687' 11,014' 10,782' W/PBR at 10,78; fler recovery of total volume of load oil or be for full 24 hours)	1450 C1C 500 C1C & 2950 Lite 400 Lite & 350 C1H 21 and must be equal to or exceed top allow		
17-날 " 12-날" 8-1/2" EST DATA AND REQUEST FO	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be of	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil	1450 C1C 500 C1C & 2950 Lite 400 Lite & 350 C1H 21 and must be equal to or exceed top allow		
17-날 " 12-날" 8-1/2" ST DATA AND REQUEST FO	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a able for this de	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift Flowing	1450 ClC 500 ClC & 2950 lite 400 lite & 350 ClH 21 and must be equal to or exceed top ollow		
17-1/2 " 12-1/2" 8-1/2" EST DATA AND REQUEST FOR THE FIRST New Cil Run To Tanks 11-1-80	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pth or be for full 24 hours) Producing Mothod (Flow, pump, gas li	1450 C1C 500 C1C & 2950 Lite 400 Lite & 350 C1H 21 and must be equal to or exceed top allow		
17-1/2 " 12-1/2" 8-1/2" EST DATA AND REQUEST FOR WELL IN First New Cil Run To Tanks 11-1-80 Inglin of Test 4 hours	13=3/8" 9=5/8" 7" 2=3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tost 11=1=80 Tubing Prassure 12850	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift) Flowing Coming Pressure	1450 C1C 500 C1C & 2950 Lite 400 lite & 350 C1H 21 and must be equal to or exceed top allow		
17-13 " 12-12" 8-1/2" ST DATA AND REQUEST FOR WELL, to First New Cil Run To Tanks 11-1-80 ngth of Test 4 hours	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tost 11-1-80 Tubing Pressure	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift Flowing	1450 C1C 500 C1C & 2950 Lite 400 lite & 350 C1H 20 and must be equal to or exceed top ollow		
17-3 " 12-2" 8-1/2" ST DATA AND REQUEST FOR WELL to First New Cil Run To Tanks 11-1-80 high of Test 4 hours	13=3/8" 9=5/8" 7" 2=3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tost 11=1=80 Tubing Prassure 12850	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift) Flowing Casing Presoure Water-Bbls.	1450 C1C 500 C1C & 2950 Lite 400 lite & 350 C1H 21 and must be equal to or exceed top allow		
17-½ " 12-½" 8-1/2" 8-1/2" EST DATA AND REQUEST FOR FIRST New CII Run To Tanks 11-1-80 Ength of Test 4 hours Stual Prod. During Test 67.93 bb1s	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tool 11-1-80 Tubing Frassure 12850 Oil-Bolo.	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift) Flowing Casing Presoure Water-Bbls.	1450 C1C 500 Lite 500 C1C 5.2950 Lite 400 Lite 5.350 C1H 21 and must be equal to or exceed top allow (fi, etc.) Choke Size 9/64!! Gas-MCF		
17-13 " 12-13" 8-1/2" EST DATA AND REQUEST FOR WELL are First New Cil Run To Tanks 11-1-80 ength of Test 4 hours clual Prod. During Test 67.93 bbls	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tost 11-1-80 Tubing Pressure 12850 Ott-Bola. 67.93	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lifted producing Processes of the producing Processes of the pump of the pum	1450 C1C 500 Lite 500 C1C 500 C1C 500 Lite 400 Lite 5 350 C1H 21 and must be equal to or exceed top ollow (fi, etc.) Choke Size 9/64 Gas-MCF 219.2		
17-½ " 12-½" 8-1/2" 8-1/2" EST DATA AND REQUEST FOR FIRST New CII Run To Tanks 11-1-80 Ength of Test 4 hours Stual Prod. During Test 67.93 bb1s	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tool 11-1-80 Tubing Frassure 12850 Oil-Bolo.	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lift) Flowing Casing Presoure Water-Bbls.	1450 C1C 500 C1C 500 C1C 500 C1C 500 C1C 500 C1H 22i and must be equal to or exceed top ollow [ft, etc.] Choke Size		
17-4 " 12-4" 8-1/2" 8-1/2" EST DATA AND REQUEST FOIL WELL note First New Cil Run To Tanks 11-1-80 ingth of Test 4 hours itual Prod. During Test 67.93 bbls AS WELL itual Prod. Test+MCF/D	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a able for this de Date of Tool 11-1-80 Tubing Prosoure 12850 Oll-Bola. 67.93	5687 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil right or be for full 24 hours) Producing Mothod (Flow, pump, gas lifted Flowing Coaling Pressure Water-Bbls. 0	1450 C1C 500 C1C & 2950 Lite 400 Lite & 350 C1H 2i and must be squal to or exceed top ollow fit, etc.) Choke Size 9/64!! Gas-MCF 219.2 Gravity of Condensate		
17-5 " 12-2" 8-1/2" ST DATA AND REQUEST FOR WELL to First New Cil Run To Tanks 11-1-80 ngth of Test 4 hours tual Prod. During Test 67.93 bbls S WELL	13-3/8" 9-5/8" 7" 2-3/8" Tubing OR ALLOWABLE (Test must be a) able for this de Date of Tost 11-1-80 Tubing Pressure 12850 Ott-Bola. 67.93	5687' 11,014' 10,782' W/PBR at 10,78; fier recovery of total volume of load oil pith or be for full 24 hours) Producing Mothod (Flow, pump, gas lifted producing Processes of the producing Processes of the pump of the pum	1450 C1C 500 Lite 500 C1C & 2950 Lite 400 Lite & 350 C1H 21 and must be equal to or exceed top allow (fi, etc.) Choke Size 9/64!! Gas-MCF 219.2		

GAS WELL			
Actual Prod. Test-MCF/D	Length of Tost	Bble. Condensate/MMCF	Gravity of Condensate
and the state of the state of	\mathbf{j}		
Testing Mothed (pitot, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (6hut-in)	Choko Size
CERTIFICATE OF COMPLIAN	CE	OIL CONSER	VATION COMMISSION

TITLE .

VI. CERTIFICATE OF COMPLIANCE I hereby certify that the rules and regulations of the Oil Conservation Commission have been compiled with and that the information given above is true and complete to the best of my knowledge and belief.

APPROVED

Burya. Aldan	ン Betry A.	Gildon_	
	(Sienaiwe)		
Regulatory Clerk	g the training of the second		
	(Title)		

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly dillied or deepened well, this form must be recompanied by a tabulation of the deviation tests taken on the well in accordance with RULC 111.

All sections of this form must be filled out completely for allow-Fill out only Sections I. II. III, and VI for changes of owner well name or number, or transporter, or other such change of condition

Separate Forms C-104 must be filed for each pool in multipli

WEST UNIVERSITY AND WESTOVER STREET THERMAL SCIENTIFIC BUILDING P. O. Box 6771 ODESSA, TEXAS 79762 PHONE 337-4744

> HNG Oll Company . . .

SanSimon 6# | (Wolfcamp)

RECOMBINATION OF	GAS, MOLE %	RECOMBINATION OF	LIQUID, LIQ.VOL. %
COMPONENT	HOLE &	LIQUID VOLUME &	
NITROGEN	2.33	0.93	
METHANE	73.06	60.34	
CARBON DIOXIDE	0.69	0.57	<u></u>
ETHANE	11.23	13.96	\mathcal{G}
PROPANE	4.64	6.24	
ISO-BUTANE	. 67	1.07	
NORMAL BUTANE	1.91	2.94	
ISO-PENTANE	.72	1.28	
NORMAL PENTANE	.97	1.71	
HEXANE PLUS	3.78	10.96	
TOTAL	100.00	100.00	

CALCULATIONS OF THE RECOMBINATION OF THE GAS AND LIQUID WERE MADE FROM THE ASSUMED AVERAGE RESERVOIR CONDITIONS OF 5890# AT 164 DEG F.

 $\Sigma \text{ KM} = 131.79$ $\Sigma M/K = 116.22$ ΣΜ = 100

 Σ KH AND M/K IS GREATER THAN M, THEREFORE THE RESERVOIR IS PART LIQUID AND PART VAPOR PHASE.

JARREL SERVICES INC. ANCHOR HOLM A.O. SMITH BOX 1654 P.O. BOX 2267 MIDLAND, TX 79701 HOBBS, NM 8824 ORE EXAMINER STAMETS OIL CONSERVATION DIVISION HNG EXHIBIT NO. 17

CASE NO. 7128 Submitted by HOLM

Hearing Date____

CASE NO. 7128

EXHIBIT NO. 12

MOBILE ANALYTICAL LAB, INC.

P.O. BOX 6771

ODESSA, TEXAS

11/10/80

LAB #2031

San Simon 6 #1 (Wolfcamp)

HOUSTON NATURAL GAS OIL SAMPLE

FRACTIONAL ANALYSIS

COMPONENT	LIQ. VOL. %	MOL %	WT. %
METHANE	0.05	0.12	0.02
CARBON DIOXIDE	0201	0.02	0.02
ETHANE	0.51	0.75	0.26
PROPANE	3.86	5.54	2.85
ISO-BUTANE	2.44	2.95	2.01
NORMAL BUTANE	9.62	12.05	3.20
ISO-PENTANE	6.39	6.89	5.82
NORMAL PENTANE	9.13	9.95	8.39
HEXANE +	67.99	61.73	72.43
TOTALS	100.00	100.00	100.00
SPECIFIC GRAVITY 0.0 CU. FT. / GAL. 25. C1 / C2 RATIO 9.0	39	VAPOR PRESSURE # / GAL. # / GAL. C5+	5.477

COMPOSITION OF C6+

CU FT/GALLON 16.84

MOLECULAR WT. 155 SPECIFIC GRAVITY .8251 GAL/LB MOL. 22.55 CU FT/GALLON 16.84

MOBILE ANALYTICAL LAB., INC.

P.O. BOX 6771

ODESSA, TEXAS

					And the second second second	
******	*************	***	***	***	****	***
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

11/10/80		LAB # 2031
	San Simon 6 #1 (Wolfcamp)	
	HOUSTON NATURAL GAS GAS SAMPLE	

FRACTIONAL ANALYSIS

COMPONENT		MOLE %	GPM
NITROGEN		1.88	0.000
METHANE		78.93	0.000
CARBON DIOXIDE		0.81	0.000
ETHANE		11.58	3.078
PROPANE		4.58	1.253
ISO-BUTANE		0.43	0.156
NORMAL BUTANE		1.04	0.326
ISO-PENTANE		0.19	0.069
NORMAL PENTANE		0.20	0.072
HEXANE PLUS	$\frac{d}{dx_{i,j}} = \frac{1}{2} \left(\frac{1}{x_{i,j}} - \frac{1}{x_{i,j}} \right) = 0$	0.31	0.131
· 			had one and and had done
TOTALS		100.00	5.085
SPECIFIC GRAVITY GROSS BTU DRY BTU	0.708 1173.0 1193.9	12# VAPOR PRE 26# VAPOR PRE	the second secon

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 14 January 1981 EXAMINER HEARING IN THE MATTER OF: Application of HNG Oil Company for) pool creation, special pool rules,) assignment of a discovery allowable,) and dual completion, Lea County, New) Mexico. BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

William F. Carr, Esq. CAMPBELL, BYRD, & BLACK Jefferson Place Santa Fe, New Mexico 87501

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MR. STAMETS: Call next Case 7128. 2 MR. PADILLA: Application of HNG Oil 3 Company for pool creation, special pool rules, assignment of a discovery allowable, and dual completion, Lea County, New 5 Mexico. MR. STAMETS: Call for appearances. MR. CARR: May it please the Examiner, my name is William F. Carr, with the law firm of Campbell, Byrd, & Black, Santa Fe, New Mexico, appearing on Lahalf of 10 the applicant. I have three witnesses. MR. STAMETS: Any other appearances in this case? I'd like to have all the witnesses stand and be sworn at this time. (Witnesses sworn.)

MR. CARR: At this time, Mr. Examiner, I would like to call Stewart Martin, and would ask that Mr. Martin be permitted to sit at the side of the table since he's working with some fairly large exhibits.

MR. STAMETS: That will be fine.

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Mr. Martin, with wou briefly state what

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feet from the east line, at a standard gas location. The

that Getty well.

. .

east half of Section 6 was dedicated to the gas zone. This well was dually completed in the Wolfcamp, as shown on the plat. The first oil run from the Wolfcamp zone was made on 10-31-80 during the potential test.

Moving over to Section 36 in Township 21

South, 34 East, it's near the perimeter where the "A" is on
the cross section, we have a Getty well that's dually completed
in the Wolfcamp formation and the Morrow in late September,
September, 1979. The oil zone in the Morrow was designated
oil originally in the original completion but later, at a
hearing in early 1980 the Commission designated it as a gas
reservoir retrograde condensate.

Getty subsequently drilled their No. 2 well in the southeast quarter of the same section and the Morrow was not productive and it was completed as a gas well.

Moving over to the east in Section 32 - MR. STAMETS: Run that by me again on What wasn't productive?

A. The Wolfcamp was not productive and it was made as a single Morrow completion.

MR. STAMETS: Thank you.

A. Moving over to Section 2 along the south line, Phillips Petroleum has proposed their No. 32

State 1-A to HNG and Northern Natural Gas, or Nortex Gas and

Oil, and this location has not been filed with the Commission as yet. They're waiting on a rotary.

MR. STAMETS: My hearing must be off today. Did you say Section 2 or Section 32?

A. Section 32.

MR. STAMETS: Okay.

A. One and a half miles west of our well in Section 1 of 22 South, 34 East, there's a single Morrow completion by Getty Oil Company, their Getty State 1-1.

Moving south in Section 12 of the same township, Texaco has a Morrow completion, their No. 1-DU State, a single Morrow completion.

Moving one mile east in Section 7, along the south line, Amoco is currently testing their No. 1 GC State in the Wolfcamp. To date they ran production tests in the Morrow that were not of commercial value.

The shallow production to the northeast of this discovery well in Section 32, 29, Section 30, is shallow Yates oil production, which is classified in the San Simon-Yates Field, at a depth of about 3800 feet.

That's all I have.

Q. This map also has a trace on it which is the trace of the cross section, which will be entered as a subsequent exhibit, is that correct?

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1		9
2	A. Ye	s, sir, the red line.
3	Q. Mx	. Martin, is it your testimony that
4	the east half of Section	n 6 is dedicated to this well in the
5	Pennsylvanian?	
6	A. Ye	s, sir.
7	4.	d the northeast quarter in the Wolf-
8		
9	h. Ye	
10	MR	. STAMETS: Mr. Martin, if I might
11	ask a question at this	point.
12	Th	ere are a couple wells I don't believ
13	that you discussed. On	e in Section 1 of 22, 34, and then
14	the next well in the ea	st half of Section2 of that same town
15	ship.	
16	1	ay. I did discuss the one in Section
17	The second secon	n 2 is also a Morrow completion,
18	single completion.	
19	MR	. STAMETS: Okay, and the same is true
20	with the well in Section	i
21	A. Ye	s, sir. And for your benefit there
22	is a legend down in	in case you want to do any further
23	study on certain zones.	
24	MR	STAMETS: Okay, thank you.
25	Q Mr	Martin, will you now refer to what

2-

has been marked for identification as HNG Exhibit Two and review this for Mr. Stamets.

A. Yes, sir. I'll have to stand up for this since it's -- this is a cross section which is marked in red on the first one, also in the insert in this Exhibit Number Two.

Starting from the top -- this consists of four wells, the Getty -- Getty 36 State Com No. 1, first well in the cross section. Second well is the Getty -- Getty 36 State Com No. 2. The one in the middle is the HNG Oil Company San Simon State 6 Com No. 1, and the one to the right is the Amoco Production Company State "GC" Com No. 1.

Going back to the Getty well on the far left, we see it is completed in the Wolfcamp, which I consider a patch reef. Potential is on the left side of the well-bore and it also shows a Morrow completion.

The next well, which is the Getty State

36 Com No. 2, shows its Wolfcamp essentially shaled out; some

live stringers but no porosity. It was completed in the

Wolfcamp -- or in the Morrow sand at 12,946 to 954.

Going to the ENG discovery well, we encountered another patch reef at a higher structural elevation but we have an oil well, and Getty's is a retrograde condensate; why it is, I don't know, but it is, and I can't

explain why we have oil higher than retrograde condensate.

And we have also our Morrow perfs on this cross section from 13,110 to 117.

Moving to the Amoco well, in the same equivalent stratigraphic horizon as our Wolfcamp completion, Amoco took a drill stem test and recovered 1500 feet of free oil with good bottom hole pressures. Their — the current set of perforations they're testing is down at 11,728 to 806 in the lower portion of the Wolfcamp formation.

This cross section is set on a structural datum of ~9500 feet, which is at the bottom of the cross section.

Q Mr. Martin, in your opinion is the Wolfcamp Pool in the discovery well a new Wolfcamp oilpool not being produced by any other well in the area?

A. Yes, sir.

Q Will you now refer to what has been marked for identification as HNG Exhibit Number Three and explain this to Mr. Stamets?

This is a consulting paleontologist's report made on our well by Mr. Harold L. Williams, consulting paleontologist in Midland, Texas, and if you'll look at the second page especially, in the middle of page, where it says 11 -- 10,990 to 11,620, he identifies Wolfcamp fossils, and

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2	0.	Will HNG call another witness to provide
3	our reservoir engine	ering
4	A.	Yes, sir.
5	Q.	data on this pool?
6	A.	Our reservoir engineer, Mr. Anchor Holm.
7	Q.	Were Exhibits One through Five prepared
8	by you or under your	supervision and direction?
9,	В.	Yes, sir.
10	* 1	MR. CARR: At this time, Mr. Stamets, we
11	would offer Exhibits	One through Five.
12		MR. STAMETS: These exhibits will be
13	admitted.	
14		MR. CARR: I have nothing further of
15	this witness on dire	ct.
16		
17		CROSS EXAMINATION
18	BY MR. STAMETS:	
19	Q	Mr. Martin, it would appear as though
20	what you've drawn he	re, or what you've illustrated here, are
21	separate patch reefs	
22	- 1.	Yes, sir.
23	Q	in the area. To your knowledge is
24	any other well comple	eted in the Wolfcamp in the same patch
25	reef that you show yo	our well completed in on Exhibit Five?

	1			15	
	2		A.	No, sir.	. •
	3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q.	What about the Amoco well, is it con-	•
		ceivable	that that	t might be in the same	
	5	•	А.	It could possibly be. Like the cross	``.
	6	section s	hows, we	just show it like a stringer. It doesn'	t _e
8	7	look like	a reef,	the cleanliness of a reef.	
•5	8	`	Q.	Now you indicated the Getty had a ret	.ro
	9	grade con	densate r	reservoir.	
3	10		Α.	Yes, sir.	
	11		Q ,	What's the nature of the oil that is	
	12	being pro	duced fro	om your well?	· .
	13		A.	That testimony will	-,
	14		Q .	The next witness.	4
	15		Α.	be brought out by the next witness	•
	16	He has se	veral exh	ibits on it.	
	17			MR. STAMETS: Any other questions of	. 0.3
	18	this with	ess? He	may be excused.	
⊁ 1	19			MR. CARR: At this time I would call	
	20	Anchor Ho	lm.		
	21				
77.	22			ANCHOR E. HOLM	
	23	being cal	led as a v	witness and being duly sworn upon his oa	th,
ober.	24	testified	as follo	ws, to-wit:	
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DIRECT EXAMINATION

4 BY MR. CARR:

5 Will you state your name for the record,

6 please?

Anchor E. Holm.

Where do you reside?

2815 West Frontier, Midland, Texas.

By whom are you employed and in what

capacity?

12 HNG Oil Company as a Senior Reservoir

13 Engineer.

> Have you previously testified before this Commission or one of its Examiners and had your credentials accepted and made a matter of record?

> > No, I have not.

Would you briefly summarize for Mr. Stamets your educational background and your work experience?

I received a Bachelor of Science degree in geological engineering from the University of Arizona in 1967. I graduated from there. I went to work for Texaco, Incorporated, as a production engineer in the southeast Utah area for two years. Half a year with Texaco as a reservoir engineer I'was stationed in Farmington, New Mexico.

density log run on the subject well. On it we have marked the location of the upper 4-1/2 inch Texas Ironworks polished bore receptacle which is set at 10,782. We show the Wolfcamp perforations from 11,132 to 11,154 feet. We show the lower 4-inch PBR set at 11,356 feet and we show the Morrow perforations at 13,110 to 117 feet with a plugback TT -- plugback TD, as 13,217 feet. This is a porosity log and the parameters are indicated on the top.

Q. Is HNG also seeking authority to dually complete this well?

- A. Yes, HNG is seeking multiple completion.
- Q. Will you identify what has been marked Exhibit Number Seven and summarize the data contained there-

A. Exhibit Number Seven is the application for multiple completion filed on December 1st, 1980, on the subject well. The upper zone is the Wolfcamp at perforations I previously referred to. It is an oil reservoir and its condition was flowing method of production.

The lower zone is also flowing and it's the Morrow zone and it is a gas zone.

Q. Will you now review the data contained on Exhibit Number Eight for Mr. Stamets?

A. Exhibit Number Eight is a wellbore

diagrammatic sketch of the well as it was drilled.

The surface casing, 14-3/8ths inch, was set at 1,085 feet and cement circulated to surface.

Intermediate casing, the first intermediate casing, was 9-5/8ths inch set at 5687 feet with cement circulated to surface.

The long intermediate string was 7-inch casing set at 11,114 feet, and a calculated top of cement at 9060 feet.

Subsequently a liner was hung from 10,782 feet to the total depth of 13,300 feet. This is a 5-inch liner which reduced down to 4-1/2 inch at approximately 11,332 feet.

Subsequent to setting the liner and circulating cement to the top of the liner, the Wolfcamp perforations were perforated and then the 2-3/8ths Hydrill tubing was run with the PBR's hung on it and the lower PBR was set at 11,356, PBR being a polished bore receptacle, and the upper 4-1/4 inch was set at the top of the liner, being part of the top of the top of the liner hanger.

That tubing does -- is 2-7/8ths inch tubing between the two PBR's.

The second string of tubing was then run, which was 2-3/8ths inch Nulock and stung into the upper

20 PBR. 2 3 The Wolfcamp perforations are as indicated as are the Morrow perforations down below the lower PBR. 5 Does this method of completion conform 6 with good engineering practices and insure the separation of 7 the zones involved? 8 Yes, it does. 9 In your opinion is the proposed comple-10 tion the best method of completing the well so as to produce 11 both the Wolfcamp and the Morrow in one well? 12 13 Yes, it is. Will you now refer to Applicant's Exhibit 14 Nine-A and review this for Mr. Stamets? 15 Exhibit Number Nine-A is the bottom hole 16 17 pressure data on the Wolfcamp zone, that is the upper zone. 18 The pressure bombs were set at 10,750 feet and the bottom hole pressures were calculated at the midpoint of the perfor-19 20 ations at 11,143 feet. This was run on 11-1-80 and the test 21 was completed on 11-3. 22 pressure was 3020 psi. The estimated datum pressure was 5890 23 24

The initial pressure of the surface tubing psi.

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A 4-point test was run as if it were a

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gas well. At this time we felt there was a chance that it might be a retrograde condensate so we wanted to treat it as that, since it did want to flow, and we flowed the well for four hours at four rates and ran bombs back to 10,750 and shut it in for a 68-hour buildup.

The last two pages are the static surveys run immediately prior to the flow and the one run immediately after the 68-hour buildup.

Q Will you now refer to Applicant's Exhibit
Nine-B and review this?

A. Exhibit Nine-B is similar data except it's on the Morrow formation, Morrow zone, that is the lower perforations.

It was started on 10-31 and completed also on 11-3 with the 4-point test data indicating the initial reservoir pressure was 7551 psi at 13,124 feet, which calculated to be the midpoint of the perforations, and that is an estimated bottom hole pressure, because we were only able to run the bombs to 11,371 feet.

And this was a 70-hour shutin. At the end of 70 hours the bottom hole pressure was estimated to be 7584 psi.

And the last page of this is the static survey run after the 70-hour shutin.

Q. Will you now refer to HNG Exhibit Nine-C and review this for Mr. Stamets?

A. Exhibit Nine-C is the Commission Form C-105 for well completions report and log on the subject well in the Wolfcamp zone, date of completion being 10-31-80 for the Wolfcamp perforations, showing that they were treated with 3000 gallons of 15 percent spearhead acid.

This test, what we did is we converted the 4-hour flow to a 24-hour flow to get the initial test and it calculated for a 24-hour rate, an average rate of 407.58 barrels of oil a day, 505.6 Mcf gas per day, no water. Gas/oil ratio of 1,240, oil gravity 46.9 degree API, at an average flowing tubing pressure of 2850 psi.

Q. Will you now refer to Exhibit Nine-D and review this for Mr. Stamets?

A. Exhibit Nine-D is the multipoint back pressure test for the gas zone of the Morrow run also on 10-31-80 as the completion date, and the calculated AOF on this was 17,849 Mcfd at 15.025 psia.

During the test 10.59 barrels of oil was also produced, that is, barrels of condensate.

The second page is the plat, the graph of the back pressure curve, and the back completion is the Form C-105 well completion report and log for the Morrow zone

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2 MR. STAMETS: Okay, thank you very much. 3 I appreciate your indulgence. You may proceed. Let's see, we were at the packer setting report for the upper PBR set at 10,782; also the form following that is the packer setting report for the 4-inch PBR, set at 11,332, approximately. Also attached is the shutin surveys, one run on 12-17-80, which is 50-day shutin time, and this was on the Morrow long string, and it came up with an estimated pressure of 7556 psi at 13,124 feet. The last static survey is on the Wolfcamp zone, run on the same date, which showed a 16-day -let's see, I believe that's incorrect -- it's probably 48-day shutin, and that was at 11,143 feet, estimated bottom hole pressure of 5878 psi. Mr. Holm, will you now refer to Exhibit 10 and review this for the Examiner? MR. STAMETS: Could I ask a question while we're on Number Nine? Which one of the charts reflects the flow test number two? This is on the packer leakage test, Nine-E?

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MR. STAMETS: Yes.

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~ 2	Λ. Let me see, the first chart was run
3	12-17 to the 18th, was the shutin of both zones.
4	The following chart is on the flow of
5	the Morrow from 12-18 to 12-19.
6	The third chart is 12-19 to
7	MR. STAMETS: Okay.
8	A 12-20, which is flow of the Wolfcamp,
9	and then the last one being shutin in both zones.
10	MR. STAMETS: Thank you.
11	Q. Will you now review Exhibit Ten?
12	A. Exhibit Number Ten is a summary of the
13	reservoir data calculated from the bottom hole pressure sur-
14	veys. In the Wolfcamp zone the permeability was calculated
15	to be 9.6 millidarcies; flow efficiency, 397.1 millidarcy
16	feet per centipoise; and a skin factor of -4.7.
17	In the Morrow zone the data was not det-
18	ermined since the buildup data were unreliable due to an ap-
19	parent changing liquid level and fluid gradient between the
20	pressure bombs and the midpoint of the perforations, that is
21	on da datum: The control of the control of the control of the control of the control of the control of the control of the
22	Q. Mr. Holm, is HNG requesting a discovery
23	allowable for the subject well?
24	A. Yes, it is.
25	Q. Will you refer to Exhibit Eleven and re-

view this for the Examiner?

A. Exhibit Eleven is the application for discovery allowable and the creation of a new pool on the HNG Oil Company San Simon State 6 No. 1.

The suggested pool names listed in order of preference are, first, the San Simon Wolfcamp; second, the Merchant Wolfcamp; and third, the Ojo Chiso East Wolfcamp.

This form C-109 was filed on 1-7-81, as was the Form C-104.

The nearest production to this discovery is the Morrow well in East Grama Ridge Field, I believe it's Well No. 2 on the cross section, coming from the left. This well is located approximately 7720 feet northwest of the discovery well. Vertical distance between, or vertical separation between the pay zones is about 1792 feet.

The nearest Wolfcamp production is from the Grama Ridge Wolfcamp gas well, the first well on our cross section, that being on the extreme left. It's top of pay is 11,320 feet and it's located approximately 9810 feet northwest of the discovery well.

All the operators owning leases within one mile of this well were sent copies of this form.

And also attached to this is the Form
C-104 showing the Western Crude Oil as being the purchaser

of both the condensate and the oil and Texaco being the purchaser of the dry gas and the casinghead gas, showing both the Morrow and the Wolfcamp.

Will you now refer to your fluid analysis, which is marked for identification as Exhibit Number Twelve, and review the data contained thereon?

Analytical Laboratories in Odessa, Texas, run a recombination of the liquid and gaseous phases of the fluids produced by the Wolfcamp zone, and this recombination was done at average reservoir conditions of 5890 psi at 164 degrees Fahrenheit.

Both the summation of KM and M/K was found to be greater than the summation of M; therefor, the reservoir is part liquid and part vapor phase. That is, in the reservoir you have oil and free gas.

Also attached are the oil sample analysis and the gas sample analysis.

Mr. Holm, will you now refer to Exhibit
Thirteen and review this for Mr. Stamets?

A. To show the difference between HNG's well and the Getty State 36 No. 1 retrograde condensate reservoir fluids, we drew a Wolfcamp fence diagram of the gas sample and the oil sample with the Mole percent increasing from the centerline, zero, both to a left and to the right,

the gas sample being on the left, oil sample being on the

The HNG gas was found to have a BTU rating of 1194 as compared to 1224 for the Getty well. Both -- both wells had very similar gas.

The triangle represents the Getty Well data; the circle represents HNG's well data.

On the righthand side there's a significant difference in the composition of the oil, as indicated in -- as you come down through the methanes, ethanes, and propanes. The HNG well has significantly lower lighter ends and has more of the heavier ends percentagewise, indicating that it is definitely an oil as compared to the condensate.

Mr. Holm, in your opinion is the Wolfcamp zone in the San Simon 6 No. 1 Well a new Wolfcamp Pool that is not being produced by any other well in the area?

Yes, sir, it is.

In your opinion will granting this application be in the best interest of conservation, the prevention of waste, and the protection of correlative rights?

Yes.

Were Exhibits Six through Eight, Nine-A, B, C, D, and E, and Ten through Thirteen prepared by you or under your direction and supervision?

	1	A Comment of the Comm		29
	2	Α.	Yes, they were.	
	3		MR. CARR: At this time, Mr. Sta	amets,
	4	we would offer these	exhibits into evidence.	
	5		MP. STAMETS: These exhibits wil	.1 be ad-
	6	mitted.		·
± 10 m m m m m m m m m m m m m m m m m m	7	1	MR. CARR: I have nothing further	r of Mr.
	8	Holm on direct.		<i></i> -
	9.	1	MR. STAMETS: Are there question	s of this
	10	witness? He may be ex	cused.	
y ·	11	1	MR. CARR: Mr. Stamets, we will	not call
, 25 — 3	12	an additional witness.		
	13	r	his concludes our direct case.	
	14	Ŋ	IR. STAMETS: Is there anything	further,
	15	then, in this case?		
	16	T	he case will be taken under adv	isement.
	17			
	18		Hearing concluded.)	
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SALLY W. BOYD, C.S. Rt. 1 Box 193-8

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CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing 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.

Sally W. Boyd C.S.R.

I do hereby certify that the foregoing is a complete rendred of the proceedings in the Exeminer hearing of Case No. 7/28

Cil Conservation Division