CASE 5080: Appli. of HORIZON OIL & GAS CO. OF TEXAS FOR A DUAL COMPLETION, EDDY COUNTY, N. M.

CHSE Mo. 5080

Application,

Transcripts,

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO October 17, 1973

EXAMINER HEARING

IN THE MATTER OF:

Application of Horizon Oil &) Gas Company of Texas for a dual completion, Eddy County,) New Mexico.

Case No. 5080

DANIEL S. NUTTER, BEFORE:

Examiner

TRANSCRIPT OF HEARING

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MR. NUTTER: Call Case Number 5080.

MR. CARR: Case 5080, Application of Horizon Oil & Gas Company of Texas for a dual completion, Eddy County, New Mexico.

MR. KELLAHIN: If the Examiner please, Tom Kellahin of Kellahin and Fox, Santa Fe, New Mexico, appearing on behalf of the Applicant, Horizon Oil & Gas Company and I have one witness to be sworn.

LOYD HENDRICKSON,

was called as a witness, and after being duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Will you please state your name, by whom you're employed and in what capacity?
- A My name is Loyd Hendrickson. I'm a consulting geologist in Midland.
- Q Have you previously testified before this commission?
- A No, sir, I haven't.
- Q Mr. Hendrickson, will you briefly state your educational and employment background for the benefit of the Examiner?
- A I received a Bachelor of Science Degree in geology in 1954 from what is now the University of Texas at El Paso.

dearnley, meier & associates

BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE. NEW MEXICO 87103 IRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE. NEW MEXICO 87108

I was employed primarily as a exploration geologist from
1954 by various companies, small independent companies,
up until three years ago, at which time or since that
time, I've been a consultant in Midland.
what amoriongs have you had in Eddy County, New Mexico

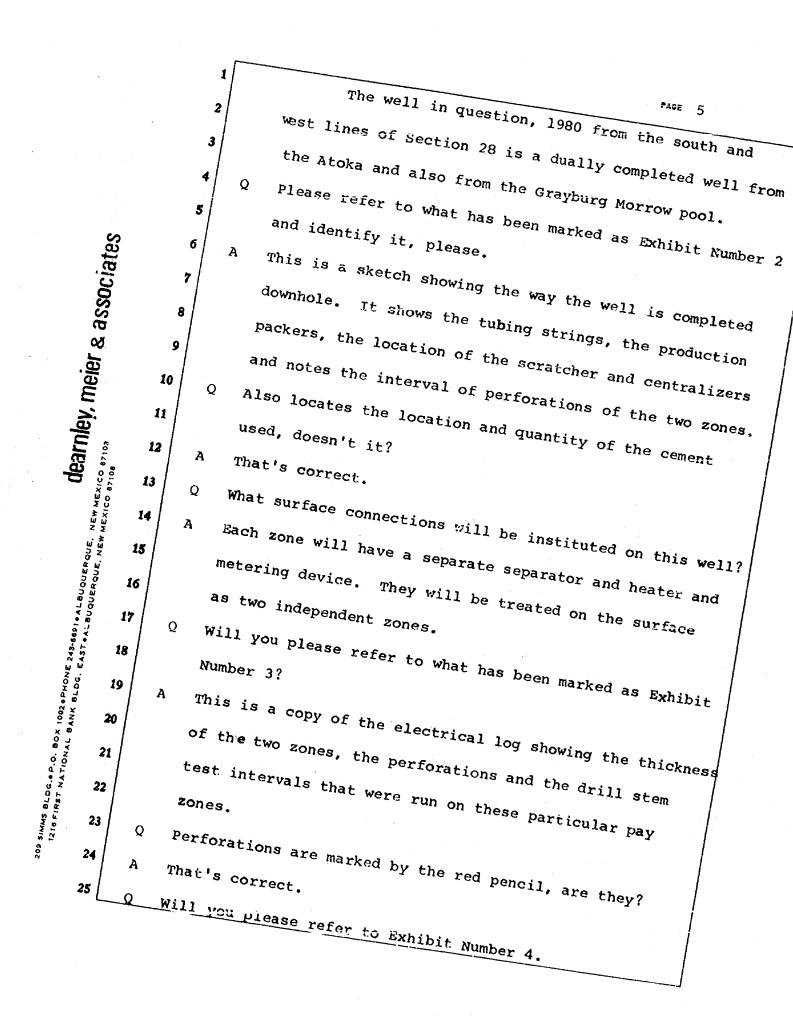
- Q What experience have you had in Eddy County, New Mexico?
- A In the past 10 years and especially the past three or four years, I've had quite a bit of experience primarily as a exploration geologist, with limited experience in the engineering and completion.
- Are you familiar with the facts surrounding this particular application?
- A Yes, I am.

MR. KELLAHIN: Mr. Examiner, are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

- Mr. Hendrickson, will you please refer to what has been marked as Exhibit Number 1, identify it for us and state briefly what the applicant is seeking.
- A This is a shot of the land plat, covering primarily Township 17, 29 in Eddy County.

The wells colored in yellow are producers from the Grayburg Morrow reservoir. There's a well in the northeast or the southwest quarter of Section 15 that' was completed from an Atoka Sandstone. I don't know if that has had a field name assigned to it at this time.



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1	A	This is form Cl05, completion report for the subject
2		well. It shows, among other things, perforating intervals
3		casing and cement and treatment of the zones.
4	Q	And Exhibit Number 5?
5	A	I believe the first one was a ClO5 on the Morrow Zone
6		and the next one is on the Grayburg-Atoka. You may have
7		had those both marked as 4, did you?
8	Q	I had them marked separately.
9	A	Okay.
10	Q	Exhibit Number 6, what is this?
11	A	This is a Packer leakage test that was run on each zone.
12		Behind the filled out form is the chart. It shows that
13		as the individual zones were flowed, that the pertinent
14		Packer did not show pressure communication.
15	Q	Please refer to Exhibit Number 7 and identify it,
16		please?
17	A	Exhibit 7 is a four point back pressure test run on each
18		zone showing completion in the Atoka of three million
19		four hundred thirty five MCF per day and the Morrow,
20		475.5 MCF per day.
21	Q	Exhibit Number 8 is a back pressure test on the Morrow?
22	A	That's correct.
23	Q	As indicated on the schematic, Mr. Hendrickson, is that

a conventional type of dual completion previously approved

by the commission and is it adequate to protect the

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of Exhibits 1 through 8.

2	A	Yes, I believe it is.
3	Q	In your opinion, Mr. Hendrickson, will approval of this
. 4		application prevent waste and protect the correlative
5		rights of others?
Ó	A	Yes, it will.
7	Q	Were Exhibits 1 through 8 prepared either by you or
8		under your direction and supervision?
9	A	No, they were not.
10	Q	Which exhibits were prepared by you?
11	A	None of these exhibits were prepared.
12	Q	Are these exhibits that have been furnished on commission
13		forms and were either prepared who were they prepared
14		by, Mr. Hendrickson?
15	λ	They were primarily prepared by Mr. Everett Tracy, who
16		is the production manager for Horizon in Spearman, Texas.
17	Q	Have you examined these exhibits and are they consistent
18		with your investigations to establish whether they are
19		accurate or not?
20	Α	Yes, sir.
21	Q	And are they accurate?
22	A	Yes, sir, I believe they are.
23		MR. KELIAHIN: Mr. Examiner, we move the introduction

MR. NUTTER: Exhibits 1 through 8 will be admitted

separation of the two formations?

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in evidence.

MR. KELLAHIN: That concludes our direct examination.

CROSS EXAMINATION

BY MR. NUTTER:

- Mr. Hendrickson, on your Exhibit Number 1, you indicated that the yellow wells were the wells producing from the Grayburg Morrow gas pool.
- That's correct.
- Are there any wells on this plat anywhere that's produced from the Atoka zone?
- Yes, sir, the well in Section 15, a recently completed well by Debco, it's shown and not colored. I apologize for that. It's in the northeast of the southwest quarter of 15.
- That's an Atoka gas well?
- Yes, sir and in my opinion, roughly equivilant to the zone that produces in this well.
- You've got a far better well in the Atoka here than you have in the Morrow.
- That's correct, even though we do feel the Morrow will improve. In the process of dually completing, we got a bunch of fluid in the Morrow formation that we think will clear up.
- This well that's way out here to the west colored yellow,

dearnley, meier & associates

	*	To a browning men and the best and an arrangement of the first and the second of the s
4	, ·	Morrow, but it is a Morrow gas well?
5	A	That's correct.
6	Q	I said probably not within the physical limits of the
7		Grayburg Morrow gas pool as defined by the commission,
8		but it is a Morrow gas well?
9	A	I believe that's known as the A Morrow field.
10		MR. NUTTER: Are there any further questions of
11		Mr. Hendrickson?
12		MR. KELLAHIN: Nothing further, Mr. Examiner.
13		MR. NUTTER: He may be excused.
14		(Witness Excused)
15		MR. NUTTER: Does anyone have anything they wish
16		to offer in Case 5080?
17		(No Response)
18		MR. NUTTER: We'll take the case under advisement.
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It's probably not in the physical limits of the Grayburg

that's a Morrow gas well?

Yes.

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I, Donna Keith, a Certified Shorthand Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

CERTIFIED SHORTHAND REPORTER

a do hereby certify that the foregoing is the Exactner hearing of Cate No. 19 79 heard by the on. a complete record of the proceedli ... Examines. Yew Yexloo Oil Conservation Commission

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Land Plat

Electric Log

Form C105 on

Form Cl05 on

Grayburg-Atoka

Four Point Back

Pressure Test

Packer Leakage Test

Morrow Zone

Sketch

Direct Examination by Mr. Kellahin

Cross Examination by Mr. Nutter

WITNESS

LOYD HENDRICKSON

APPLICANT'S

Exhibit 1

Exhibit 2

Exhibit 3

Exhibit 4

Exhibit 5

Exhibit 6

Exhibit 7

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

November 16, 1973

I. R. TRUJILLO
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY – DIRECTOR

dr. Man Wallahila	Re: CASE NO. 5080	
Ar. Tom Kellahin Kellahin & Fox	ORDER NO. R-4655	•
Attorneys at Law Post Office Box 1769	Applicant:	•
Santa Fe, New Mexico	Horizon Oil & Gas	
		-

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.

Secretary-Director

ALP/ir				
Copy of order	also sent	to:		
Hobbs OCC Artesia OCC Aztec OCC	x			
Other				

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5080 Order No. R-4655

APPLICATION OF HORIZON OIL & GAS COMPANY OF TEXAS, FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 17, 1973, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of November, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Horizon Oil & Gas Company of Texas, seeks authority to complete its State 28 Well No. 2, located in Unit k of Section 28, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Grayburg-Morrow Gas Pool and an undesignated Atoka Gas Pool through parallel strings of tubing.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Horizon Oil & Gas Company of Texas, is hereby authorized to complete its State 28 Well No. 2, located in Unit K of Section 28, Township 1.7 South, Range 29 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Grayburg-Morrow Gas Pool and an undesignated Atoka Gas Pool through parallel strings of tubing.

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

-2-CASS NO. 5080 Order No. R-4655

inconsistent with this order;

FROVIDED FUNCTION, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for the Grayburg-Morrow Gas Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

I. R. CRIUILLO, Chairman

ALEM J. ARMIJO, Member

A. L. FORTER, JR., Member & Sporetany

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El Paso Natural Gas Company

El Paso, Texas 70000

October 29, 1973



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

Attn: Mr. D. S. Nutter

Re: Horizon Oil and Gas Company of Texas State #28-2 Sec. 28, T17S, R-29E Eddy Co., New Mexico

Dear Mr. Nutter:

El Paso Natural Gas Company does not have any objection to the Horizon Oil and Gas Company of Texas application seeking permission to dually complete the above captioned well as a gas-gas (Atoka-Morrow) dual.

Very truly yours,

John B. Magruder, Director Gas Proration Department

JBM:keh

cc: Horizon Oil & Gas Co. of Texas P. O. Box 7 Spearman, Texas 79081

Docket No. 29-73

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 17, 1973

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

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

ALLOWABLE: (Continued from October 3, 1973, Examiner Hearing)

- (1) Consideration of the allowable production of gas for November, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
- (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1973.
- CASE 5075: Application of Hillin Production Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its JCW State Com. Well No. 1 located in Unit C of Section 2, Township 20 South, Range 28 East, Eddy County, New Mexico, in such a manner as to produce gas from an undesignated Strawn gas pool and from the Winchester-Morrow Gas Pool through the casing-tubing annulus and tubing, respectively.
- CASE 5076: Application of David Fasken for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well at an unorthodox location 1980 feet from the North line and 660 feet from the West line of Section 7, Township 18 South, Range 26 East, West Atoka-Morrow Gas Pool, Eddy County, New Mexico, the N/2 of said Section 7 to be dedicated to the well.
- CASE 5077: Application of Texaco Inc. for downhole commingling and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle in the wellbore production from the Skaggs-Glorieta and East Weir-Blinebry Pools in its C. H. Weir "B" Well No. 4 located in Unit I of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, and to dually complete said well in such a manner as to permit the production of the aforesaid commingled fluids and hydrocarbons from the East Weir-Tubb Oil Pool through parallel strings of tubing.
- CASE 5078: Application of Franklin, Aston & Fair for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter its McIntyre Well No. 6-A, an old hole located 990 feet from the South line and 1650 feet from the East line of Section 20. Township 17 South, Range 30 East, Eddy County, New Mexico, in order to complete son, as a Morrow gas well, the E/2 of said Section 20 to be dedicated to the well.

CASE 5079:

Application of May Petroleum Inc. for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a proposed well to be drilled at a point 1650 feet from the South line and 1129 feet from the East line of Section 31, Township 11 South, Range 38 East, North Gladiola-Devonian Pool, Lea County, New Mexico.

CASE 5080:

Application of Horizon 011 & Gas Company of Texas for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State 28 Well No. 2 located in Unit K of Section 28, Township 17 South, Range 29 East, Eddy County, New Mexico, in such a manner as to permit the production of gas from the Grayburg-Morrow Gas Pool and an undesignated Atoka Gas Pool through parallel strings of tubing.

CASE 5081:

Application of Mesa Petroleum Company for a dual completion and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Skelly State Well No. I located in Unit I of Section 14, Township 16 South, Range 35 East, in such a manner as to produce oil from the North Shoe Bar-Wolfcamp Pool and gas from an undesignated Morrow gas pool through parallel strings of tubing. Applicant further seeks the promulgation of temporary special rules for said North Shoe Bar-Wolfcamp Pool, including a provision for 160-acre drilling and provation units.

CASE 5082:

Application of Mesa Petroleum Company for a dual completion, creation of a new oil pool, assignment of a discovery allowable, and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the North Shoe Bar-Strawn Pool for its Hillburn Well No. 1 located in Unit E of Section 13, Township 16 South, Range 35 East, Lea County, New Mexico, and the assignment of approximately 56,440 barrels of oil discovery allowable to said well; applicant also seeks approval for the dual completion of said well in such a manner as to permit the production of oil from the North Shoe Bar-Wolfcamp Pool and the North Shoe Bar-Strawn Pool through parallel strings of tubing; applicant further seeks the promulgation of temporary special rules for said pool, including a provision for 160-acre drilling and proration units.

CASE 5083:

Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Blinebry-Paddock and Tubb production in the well-bore of its C. H. Lockhart Federal Well No. 3 located in Unit O of Section 18, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5084:

Southeastern nomenclature case calling for the extension of certain pools in Lea and Roosevelt Counties, New Mexico:

(Case 5084 continued from page 2)

(a) Extend the Antelope Ridge-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM Section 2: S/2

(b) Extend the Antelope Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM

Section 2: S/2

Section 3: S/2

Section 4: S/2

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

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM Section 5: SW/4

(d) Extend the EK Yates Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 8: NW/4

(e) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM Section 14: E/2

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

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM

Section 16: S/2

Section 17: E/2

(g) Extend the South Salt Lake-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM Section 30: A11

(h) Extend the Triple X-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 32 EAST, NMPM Section 12: NE/4

Examiner Hearing - Wednesday - October 17, 1973

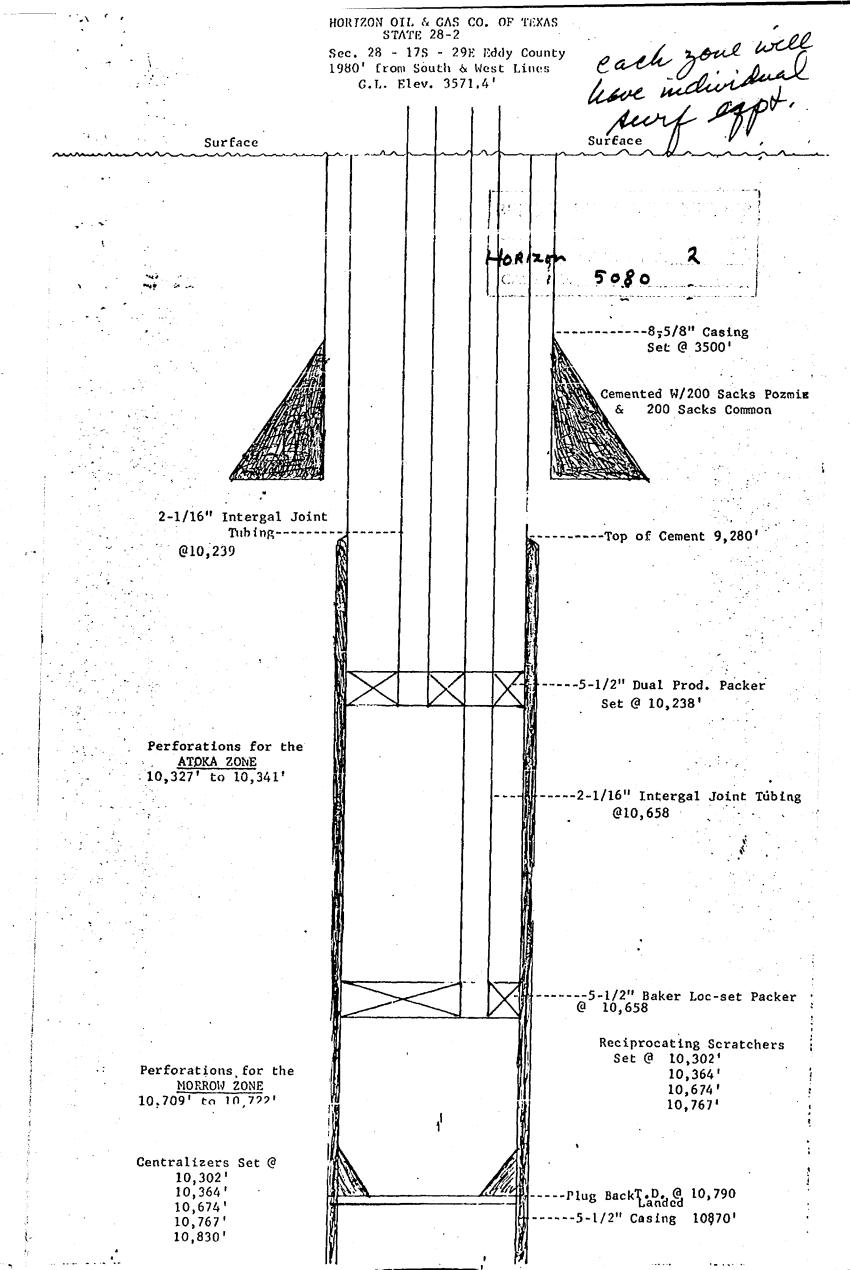
Docket No. 29-73

(Case 5084 continued from page 3)

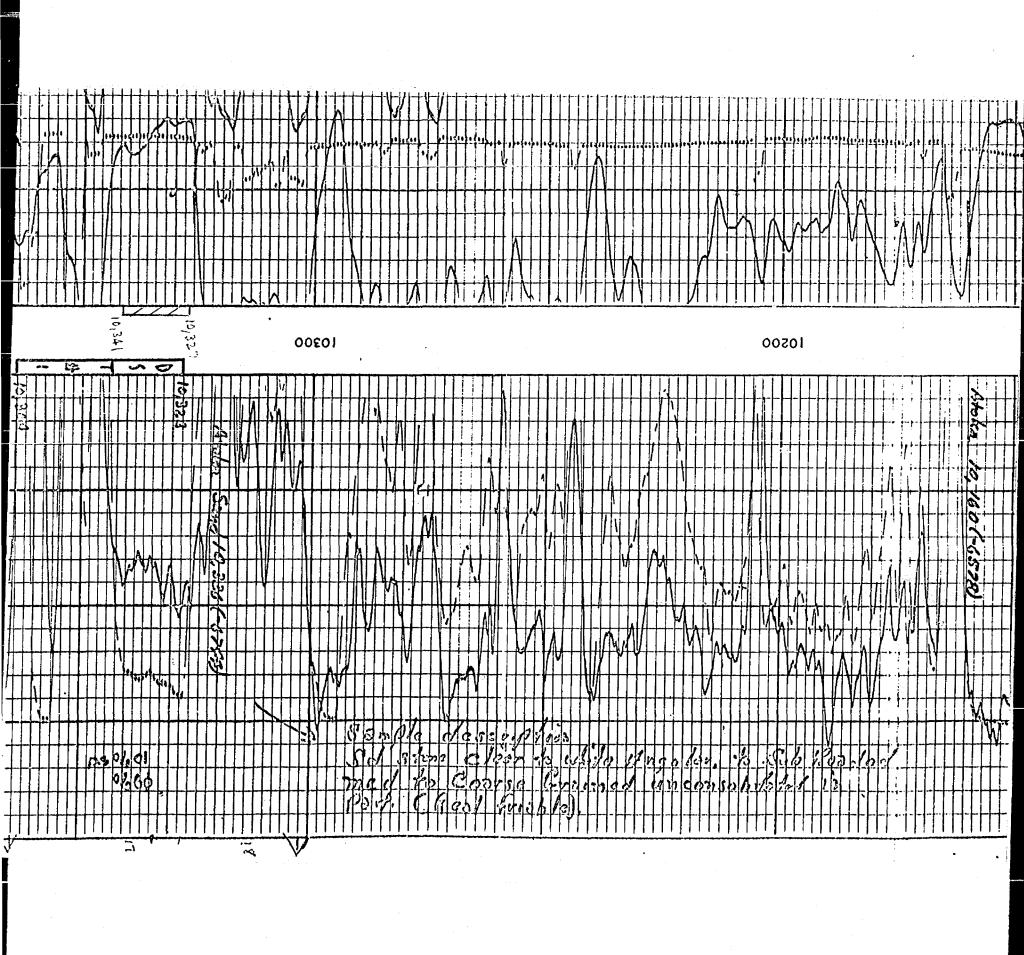
(i) Extend the Williams-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

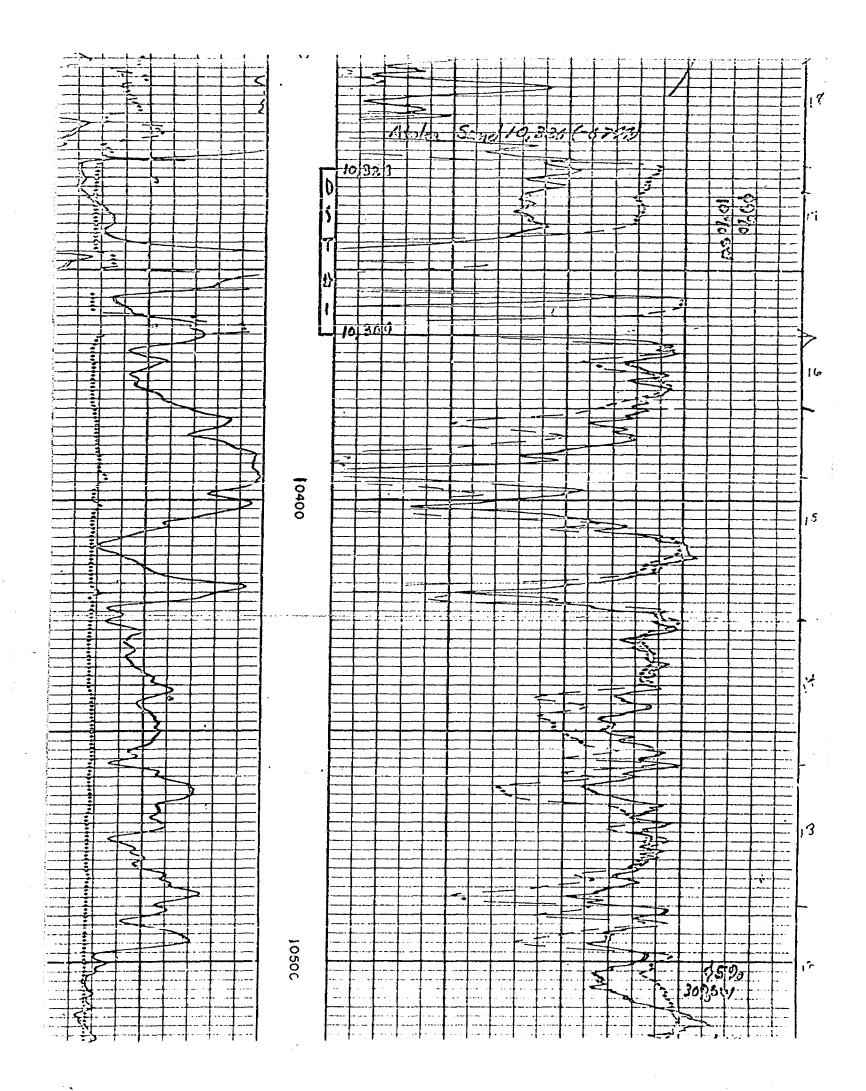
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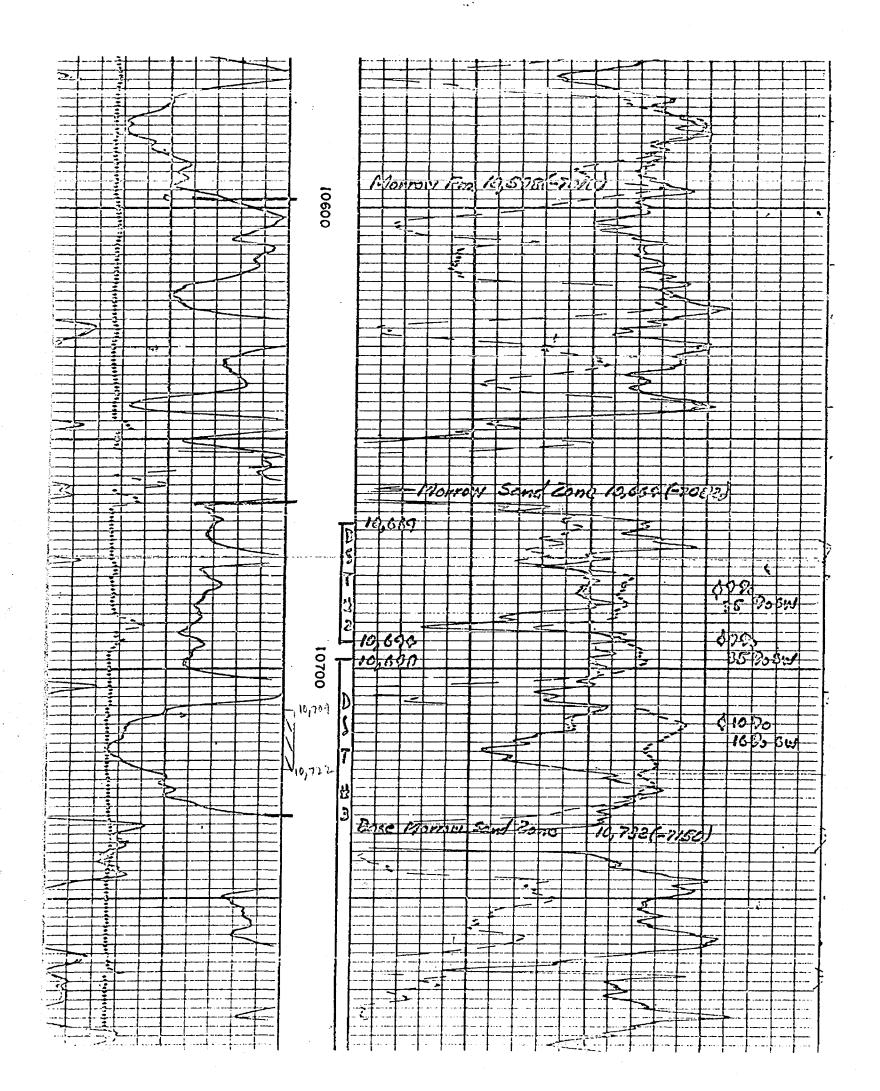
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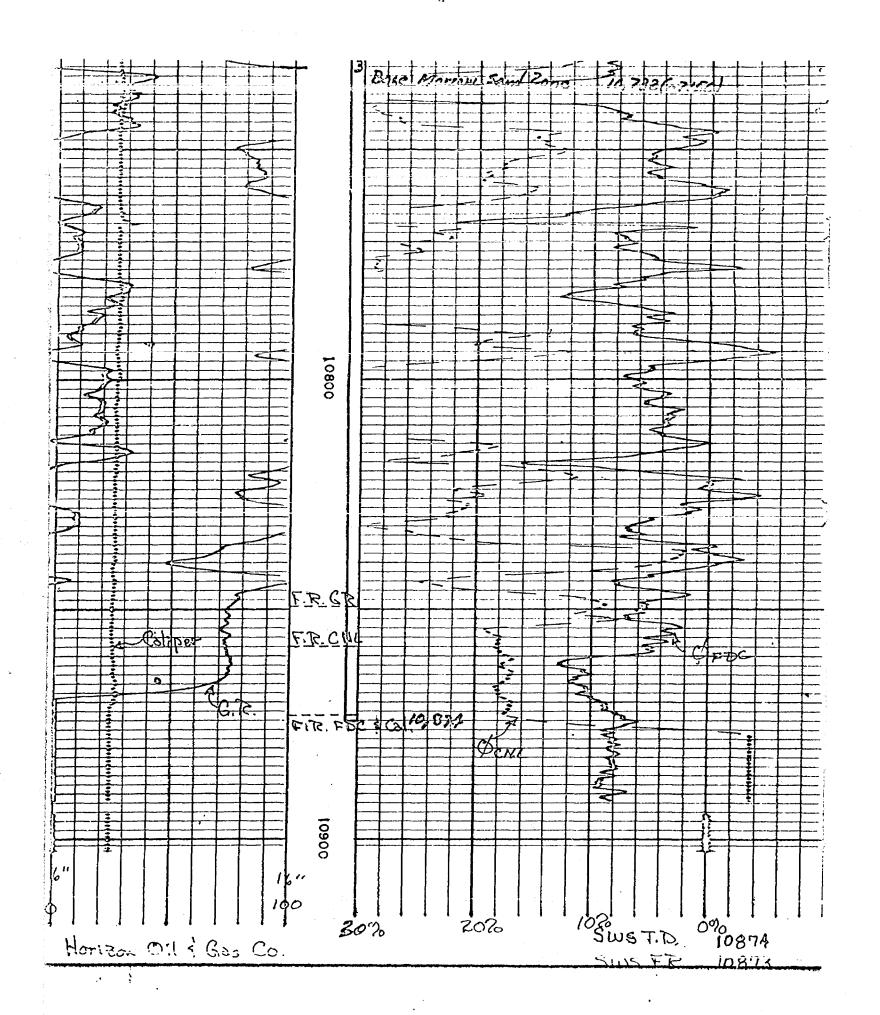


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NO. OF COPIES RECEIVE	ED									Form	C-105	
DISTRIBUTION										Revi	sed 1-1-65	
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FILE		WELL				OMPLETIC				State		Fee
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IG. TYPE OF WELL					<u> </u>	<u> </u>	 -				areement Name	711111
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b. TYPE OF COMPLE	TION	WELL	WET	tien C	DRY	OTHER		./		8. Farm o	r Lease Name	
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Horizon	011 & 6	as Co.	of Tex	ลร							2	
3. Address of Operator										10. Field	and Pool, or Wild	cal
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26, Type Electric and C	ther Logs Ru	חנ								27.	Was Well Cored	
Dus	l Loter	olog				_				·		•
29.			CA	SING RECO	RD (Rep	ort all strings	set i	n well)				•
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31. Perforation Record (Interval, size	and numbe	77)			32.	ACID,	SHOT, FR	RACTURE,	CEMENT S	QUEEZE, ETC.	
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									800	agal.	75% acid	
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22		 			PPOO	UCTION					· · · · · · · · · · · · · · · · · · ·	
Date First Production	TP	roduction M	ethod (Flot	ving, gas lif		ing - Size and	type	pump)		Well Stat	us (Prod. or Shut-	in)
			floa	_			•••					
Date of Test	Hours Teste	d Ch	oke Size	Frod'n. F		OII Bbl.	. (Gas - MCF	Wate	r – Bbl.	Gas - Oil Ratio	,
91-73	24		4/64	Test Port	>		.	475			 -	ł
Flow Tuling Press.	Casing Pres		lculated 24	- Oil - Bbl	•	Gas - M	CF		er - Bbl.	CI	Gravity - API (Corr.)
459	packer		cr Rate >	. [47	5					i l
34, Disposition of Gas (Sold, used for	fuel, vente	· l, etc.)						Test	Witnessed	bγ	
Vented for testing (Well to go on line 11-73)												
35, List of Attachments												-
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26. I hereby cently that	gie informate	ia stitut oj	i voen stae	s of thes for	L IN THE	с ана сотричи	: 10-7/	e arscoj M	i) vaniced!	e and orde	P	ļ
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SIGNEY TO	<u> </u>			TITL	E PFO	duction !	many	19¢[DATE	1-/3	

INSTRUCTIONS

7. 12 A

This form is to be filled with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be a companied by one copy of all electrical and a home control to a remark of and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured day than in the cancer of directionally drilled wells, true vertical lepths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each some. The form is to be tiled in quinterlicate exception state land, where six copies are required. See finite 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	Southeas	tern	New Mexico	Northwestern New Mexico						
Ŧ.	Anhy	T.	Canyon	T.	Oje Alano	т.	Penn. "B"			
T.	Salt	т.	Strawn 3365	Т.	Kirtland-Fruittund	Т.	Penn. "C"			
			.0,44				Penn. "D"			
т.	Yates	τ.	Miss	Τ.	Cliff House	т,	Leadville			
T.	7 Rivers	Τ.	Devonian	Υ.	Menefee	. T.	Madison			
T.	Queen	T.	Silurian	Τ.	Point Lookout	т.	Elbert			
T.	Grayburg	T.	Montoya	т.	Mancos	T.	McCracken			
T.	San Andres	T.	Simpson	Т.	Gallup	"Т .	Ignacio-Qtzte			
T.	Glorieta 3866	T.	McKee	. Bas	se Greenhorn	T.	Granite			
T.	Paddock	T.	Ellenburger	T.	Dakota	T.				
T.	Blinebry	τ.	Gr. Wash	T.	Morrison	T,				
τ.	Tubb	T.	Granite	T.	Todilto	Т.				
T.	Drinkerd	T.	Delaware Sand	T.	Entrøda	T.				
T.	Abo	T.	Bone Springs	T.	Wingate	T.				
T.	Wolfcamp 7217	T,	Morrow Form. 10590	T.	Chinle	T.				
T.	Penn.	T.	Morrow Sand. 10664							
T	Cisco (Bough C)	T.		T.	Penn. "A"	T.	-			

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
3500 3856 3960 5420 5990 6800 7217 7340 7820 8490 8750 8330 9965 10.160 10.593 10.644	3866 3960 5420 5980 6800 7217 7340 7820 8490 8750 8830 9965 10,160 10,598 10,664 10,732	94 1460 560 820 417 123 480 670 260 80 1135 195 438 66	Dolomito Sandy Dolomito & Shale Dolomite, some Shale Shale and Dolomito Interbedded dolomite & Si Dolomite Granular Dolomite Limestone, some dolomite Limestone & Shale Limestone Reef type limestone Limestone, some shale Limestone, black shale Limestone, Gauconitic sns Sandstone Shale, black	lo			
							•

NO. OF COPIES RECEIVES DISTRIBUTION Revised 1-1-65 Sa. Indicate Type of Lease SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION State X FILE WELL COMPLETION OR RECOMPLETION REPORT AND LOG State Off & Gas Lease No. u.s.g.s. LAND OFFICE OPERATOR 14. TYPE OF WELL OIL . GAS X DPY ... b. TYPE OF COMPLETION NEW WORK OVER DEEPEN State-28 Com. Name of Operator Horizon Oil & Gas Co. of Texas 3. Adiress of Operator 10. Field and Pool, or Wildcat P.O. Box 7, Spearman, Texas 79081 Grayburg Atoka HORIZON 4. Legation of Well 5080₁₉₈₀ CASE NO. 1980 28 TWP. 178 RGE. 29K Eddy 16, Fate T.D. Reached 17, Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 19. Elev. Cashinghead 6-5-73 4-27-73 GL 3571, KB 3582.4 8-16-73 22. If Multiple Compl., How Many two Cable Tools 20, Total Depth 21. Plug Back T.D. 23. Intervals : Rotary Tools Drilled By 10,890 10,790 24. Producing Interval(s), of this completion - Top, Hottom, Name 25. Was Directional Survey 10,327 to 10,341 26, Type Electric and Other Logs Run 27. Was Well Cored Dual Laterolog CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED 15¹¹ 11-3/4 42# 350 350 васкв 11" **35**0Ω 400 Class C 300 Class H 8-5/8 320 10,870 202 LINER RECORD TUBING RECORD BOTTOM DEPTH SET PACKER SET SIZE TOP SACKS CEMENT SCREEN SIZE 10,238 2-1/16 10,238 31. Perferation Record (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. AMOUNT AND KIND MATERIAL USED DEPTH INTERVAL 2,500 gal 7½% acid 10,327 to 10,341 (4 jets per jt) 33. PRODUCTION Well Status (Prod. or Shut-in)
Shut In Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) flowing Gas-Oll Ratto Date of Test Choke Size Oll - libl. Gas - MCF Hours Tested Prod'n. For Test Period 22/64 3435 8-16-73 24 Cusing Pressure Oil Gravity - API (Cerr.) Flow Tubing Press. Calculated 24-Hour Bate Gas - MCI Water - Bbl. 475 packer 34. Disposition of Gus (Sold, used for fuel, vented, etc.) Test Witnessed By Vented for testing (Well to go on line 11-73) 35. LaDST /3.1:hments Dual Laterolog so, I hereby verify that the information, chain on both aldes of this form is true and complete to the best of my knowledge and belief Production Manager 9021-73

Lites Withren

, , . b 5°

INSTRUCTIONS

This form is to be filled with the appropriate District Office of the Commission not later than 20 days after the empletion of any newly-diffied or deepened well. It shall be accompanied by one copy of all electrical and radio-notivity logs run on the well and a summary of all special tests conducted, including drift stem tests. All depths reported small be measured depths. In the case of directionally frilled wells, true vertical depths shall also be reported. For multiple completions, them is that with the reported for each wine. The function is to be filled in quintuplicate except on state land, where six copies are required. See Rule 1165.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico Northwestern New Mexico T. Canyon T. Ojo Alano T. Penn. "C". T. Strawn 9965 T. Kirtland-Fruitland T. Penn. "C". T. Penn. "B" T. Anhy_ T. Strawn 9965 T. Kirtland-Fruitland T. Penn. "C" T. Atoka 10160 T. Pictured Cliffs T. Penn. "D" B. Salt _ T. Cliff House _____ T. Leadville. T. Yates_ T. Miss__ T. Devonian ... T. Menefee ___ T. Madison. T. Elbert T. Silurian _____ T. Point Lookout ___ T. Oucen _ T. Mancos T. Montoya_ T. Grayburg T. McCracken T. Simpson _____ T Gallup ____ T. Ignacio Quete ___ T. San Andres T. Glorieta 3866 T. McKee Base Greenhorn T. Granite T. Paddock_ T. Ellenburger T. Dakota -_ T. _ T. Blinebry_ ______ T. Gr. Wash ______ T. Morrison ___ т. -T. Granite T. Todilto T. Tubb __ T. Delaware Sand ______ T' Entrada___ _____Τ. ... T. Drinkard T. Wingate __ T. Abo _____ _____ T. Bone Springs ____ __ T. _ T. Wolfcamp 7217 T. Morrow Form 10593 T. Chinle __ T. , T. Morrow Sand 10664 T. Permian T. Penn. __ T. _

FORMATION RECORD (Attach additional sheets if necessary)

.... T. Penn. "ለ" ـ..

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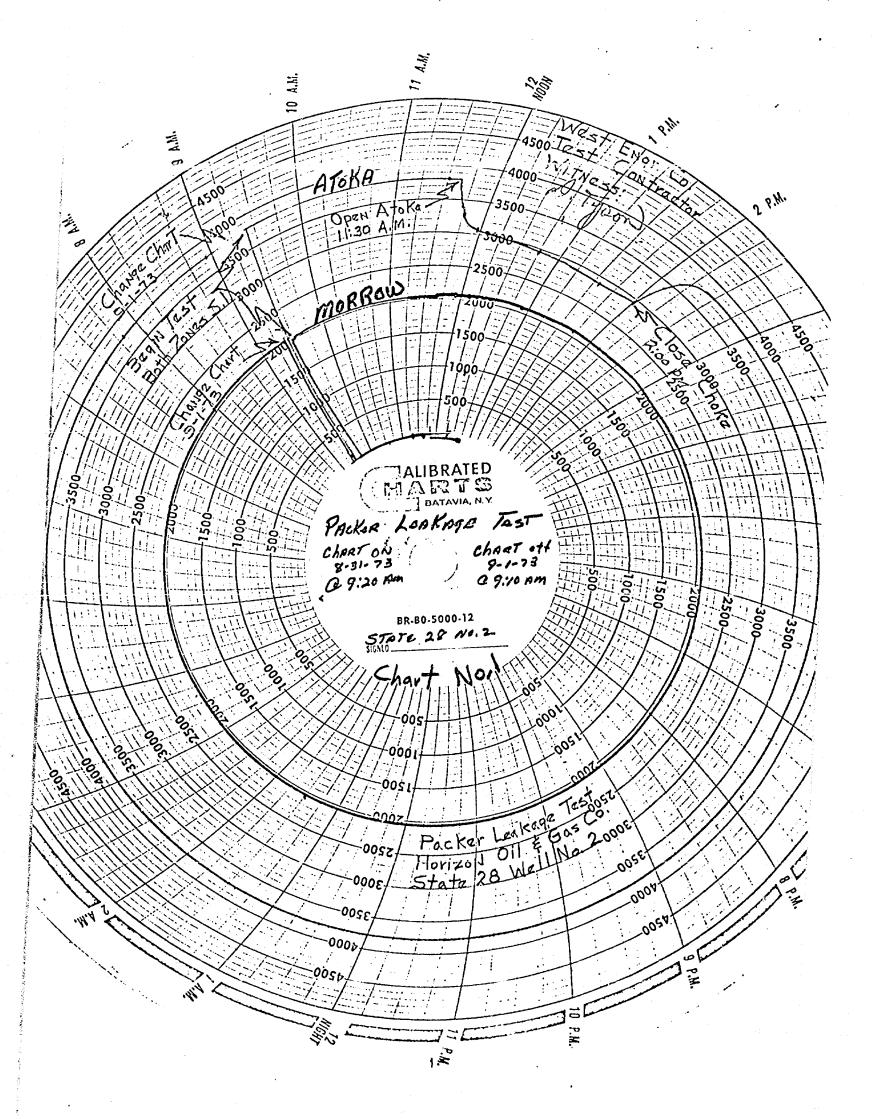
T Cisco (Bough C) -

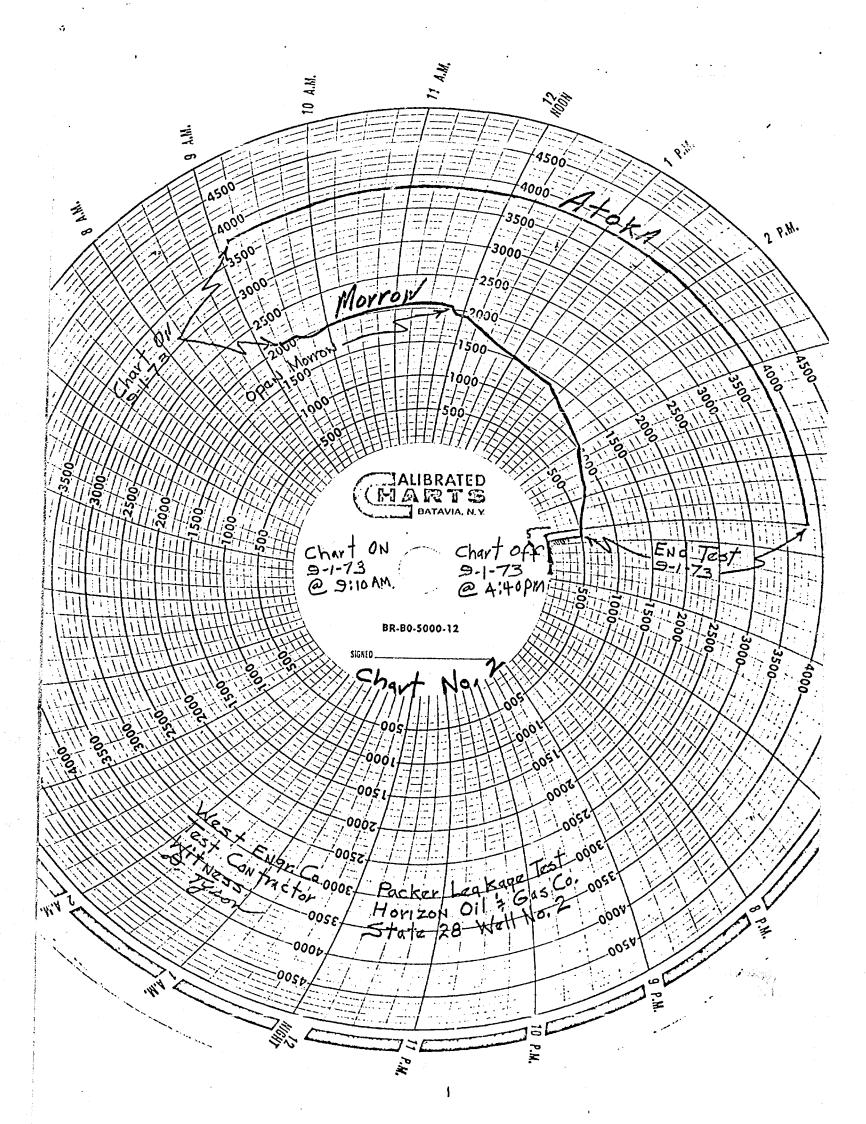
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6800 7217	7217 7340	417 123	Dolomite Granular Dolomite				
7340 ° 7829 8490	7820 6490 8750	480 670 260	Limestone, some dolomite Limestone & shale Limestone				
8750 8830	8830 9965	80 1135	Reef type limestone Limestone, some shale				•
10598 10644	10732	68	Limestone, black shale Limestone, sandstone, shale & Limestone, Gauconitic sna Sandstone				
10,732	10890	·158	Shale, black				
							,
•				*	-		

NEW MEXICO OIL CONSERVATION COMMISSION

		Southe	ast new me	XICO PA	CKER LEAKAGE TES	T		
Opera	tor HOR	IZON OIL & GA	As co.	Leas	e STATE 28		We. No	
Locat:	ion Unit	Sec 28	Twp	17s	Rge 29	F	County	DDY
OI we			1.77	f Prod	Method of Prod	Prod	. Medium	Choke Size
Upper	ATOKA	ervoir or Pool		r Gas) AS	Flow, Art Lift	T	or Csg)	10/64"
Compl Lower Compl	MORROW			As	FLOW	- 	IBING	14/64"
Compil			FL	OW TEST	NO. 1			
Both z	cones shut-in at	(hour, date)						
	ppened at (hour,					`` (Upper Completion	Lower Completion
	•						-	, •
						_		2005
Stabil	ized? (Yes or N	o)	MOSE I		MER MUTTER	- <u>-</u>	YES	YES
Maximu	m pressure duri	ng test	to Rizon	• • • • • • •	6		3800	2025
Minimu	m pressure duri	ng test	Asia NO.	. 7.0.4	9		2900	2005
			energy and a second or property of					2025
Pressu	re change durin	g test (Maximu	m minus M	inimum).	• • • • • • • • • • • • • • •		900	20
Was pr	essure change a	n increase or	a decrease	?		· · · · · · · -	DECREAS	E INCREAS
Oil Pr	losed at (hour, oduction	•	0	as Prod	Total Ti Producti uction est 2703	lon	2.5 HOUR	
Remark	s							
				TEST N	• ,	• .	Upper	Lower
Well o	pened at (hour,	date):	12:00 P	M. (NOO	N) 9-1-73	c	ompletion	Completion
		•			• • • • • • • • • • • • • • • •			<u> </u>
Pressu	re at beginning	of test	• • • • • • • • •	•••••	•••••••	•••••	3825	2050
Stabili	ized? (Yes or No)	• • • • • • • • •	• • • • • • •		•••••	YES	YES
Maximun	n pressure durin	g test	• • • • • • • • •	• • • • • • •			3825	2050
Minimum	pressure durin	g test	; •••••••	• • • • • •		•••••	3800	500
Pressur	e at conclusion	of test		•••••			3810	500
Pressur	e change during	test (Maximum	n minus Mi	nimum).	••••••		25	1550
Was pre	ssure change an	increase or a	decrease	?			DECREASE	DECREAS
Ull Pro	osed at (hour, duction Test: NONE b		Ga: ; Du	-73 Froducting Tes	Total tim Production tion 393.7	_	5 Hours	
Remarks			رود در	·				
I hereb	y certify that	the informatio	n herein c	•	d is true and co	,		•
Approve New Me	d_ xico Oil Conser	vation Commiss	_19 ion		perator HORIZ		, 7	JMPANY
Ву				ጥ፥	tle ENG	INEER	-	
Title	-			* * * * * * * * * * * * * * * *	ENG	INEER		:

9-5-73





NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

I, Everett R. Tracy Name of party making report	oring of lawful age and having full
knowledge of the facts hereinhelow set out do state;	
That I am employed by <u>Horizon Oil & Gas Co, of</u>	!
Production Manager , that on,	July 24, 19 73
I personally supervised the setting of aBaker Loc Set	Packer
Make &	type of packer
**************************************	tate 28
Operator of well	Lease name
Well no. 2 located in the Grayburg A	toka field,
Eddy county, state of New Mexi	CO , at a subsurface depth of
10,238 feet, said depth measurer	ment having been furnished me by
Vann Tool Company	
That the purpose of setting this packer was to effect a seal is strings of pipe where the packer was set so as to prevent the count of fluids produced from a stratum below the packer with fluids packer.	uingling, in the bore of this well,
packer; that this packer was properly set and that it did, when set	t, offectively and absolutely scal
off the annular space between the two strings of pipe where it v	was set in such manner as that it
prevented any movement of fluids across the packer,	
Production Manag	mittee)

(Bute)

NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

I, Everett R. Tracy	, being of lawful age and l	naving full
knowledge of the facts hereinbelow	set out do state:	
That I am employed by Horizon	n Oil & Gas Co. of Texas in the c	apacity of
Production Manager	, that on July 21	<u>, 1973</u>
I personally supervised the setting	of a Baker Loc Set Packer Make & type of packer	
in Horizon 011 & Gas Co.		· • • • • • • • • • • • • • • • • • • •
Well no. 2 loca	ated in the Grayburg Morrow	field,
Eådy	county, state of <u>New Mexico</u> , at a subsurfac	e depth of
10,658	feet, said depth mensurement having been furnis	hed me by
Vann Tool Company		;
That the purpose of setting this p	packer was to effect a scal in the annular space be	lween two
strings of pipe where the packer wa	s set so as to prevent the commingling, in the bore of	this well,
of fluids produced from a stratum b	nclow the packer with fluids produced from a stratum	above the
packer; that this packer was properly	ly set and that it did, when set, effectively and absolu	itely seal
,	two strings of pipe where it was set in such manner	
prevented any movement of fluids ac		-
prevented any movement of futus ac	coss the packer.	
	Teed Rolling	
	Production Manager (Title)	
	9-21-73	

AUG 25 1973

HORE ON OIL & GAS CO.
SPEADMANN TENAS

Horizon

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508t

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 Revised 9-1-55

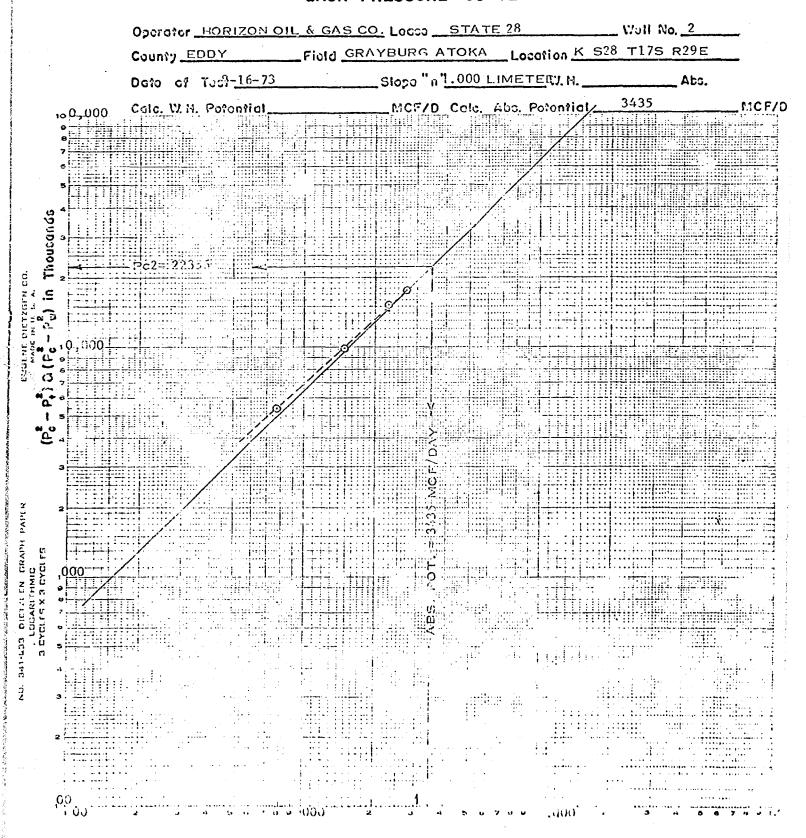
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CEGEIVED AUG 23 1973 HORIZON OIL & GAS CO.

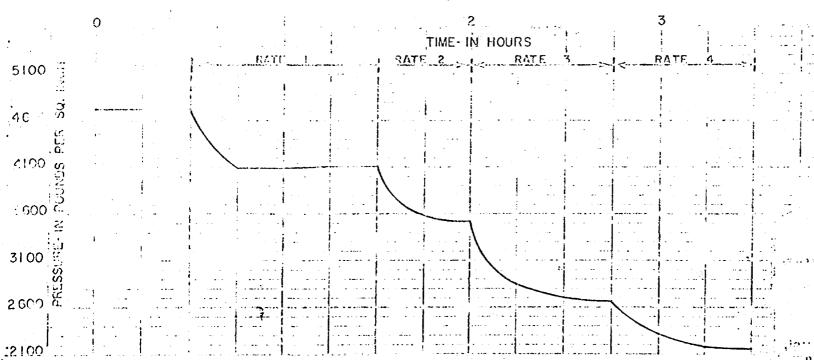
FORM 2907

DACK PRESSURE CUTVE



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	3:30 гм	0:	00 1	3521 END RATE 2	ELEMENT No .:		16194-N	
			•		RANGE:		0-5000 psi	
	3:30 PM	0	00	3521 BEGIN RATE 3	CLOCK No.:		4052	
		0	15	2858	RANGE:	•	0-12 Hours	بر مر المراجع



30 -..

45 Min.

4:15 PM

2702

 $2670\ \text{end rate}\ 3$

HORIZON OIL & GAS COMP

STATE 28 WELL No.2
BOTTOM HOLE PRESSURES TO USE FOR
MULTI-POINT BACK PRESSURE TEST:

8-21-73

M.C.T.

PSIG @ 10,215 FFUT TIME .GUM, JUPS, /MIN. · .P.S.IG. 19,215, PH.I.T. 4714 GAUGE REACHED 10,2151 NIN. 1:15 pm 02 Hins. 45 MIN. 2670 BLE BE RATE 4 4714 OPEN CHOKE, BEGIN RATE 1 03 Q: 2309 4096 03 15 2186 4091 5:00 pm 03 Hris. 30 MIN. 2170 END RATE 4, LIID TEST 4107 . 4107 END RATE 1 TEST DATE: August 16, 1973 4107 BEGIN RATE 2 10,215 Feer · TEST DIPTH: 3599 3521 END RATE 2 16194-N ELEMENT No .: 0-5000 PSI RANGE: 00 3521 BEGIN RATE 3 CLOCK No .: 4052 15 2858 RANGE: 0-12 Hours 30 ... 2702 45 MIN. 2670 END RATE 3 TIME- IN HOURS HORIZON OIL & GAS COMPARY STATE 28 WELL No.2 BOTTOM HOLE PRESSIRES TO USE FOR CALCULATING MULTI-POINT BACK PRESSURE TEST

; ;

REGEIVED

SEP 10 1973

HORIZON OIL & GAS CO.

NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

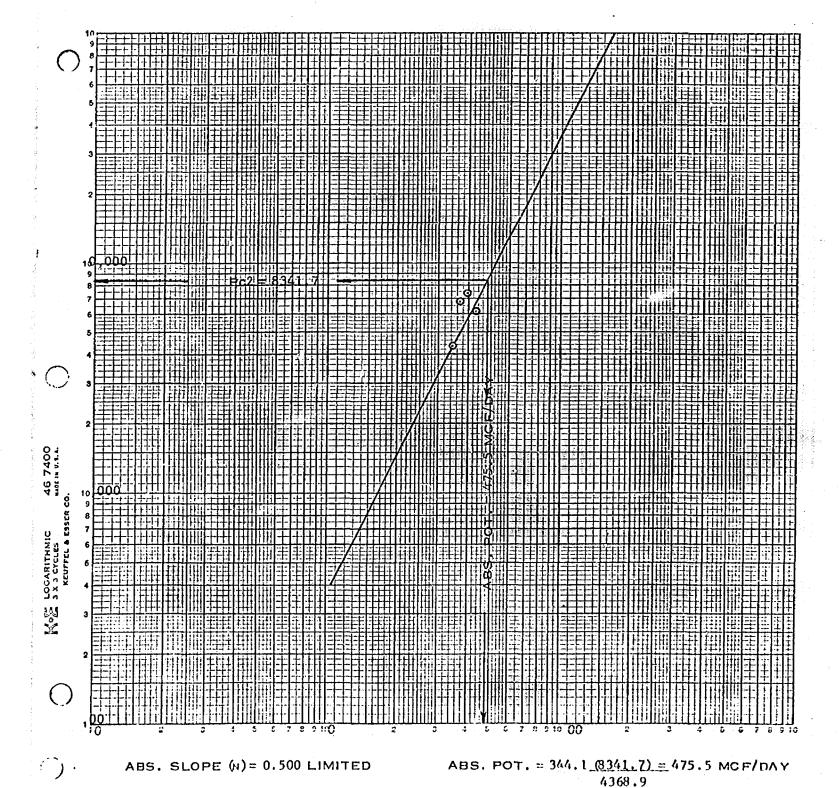
Form C-122 Revised 9-1-65

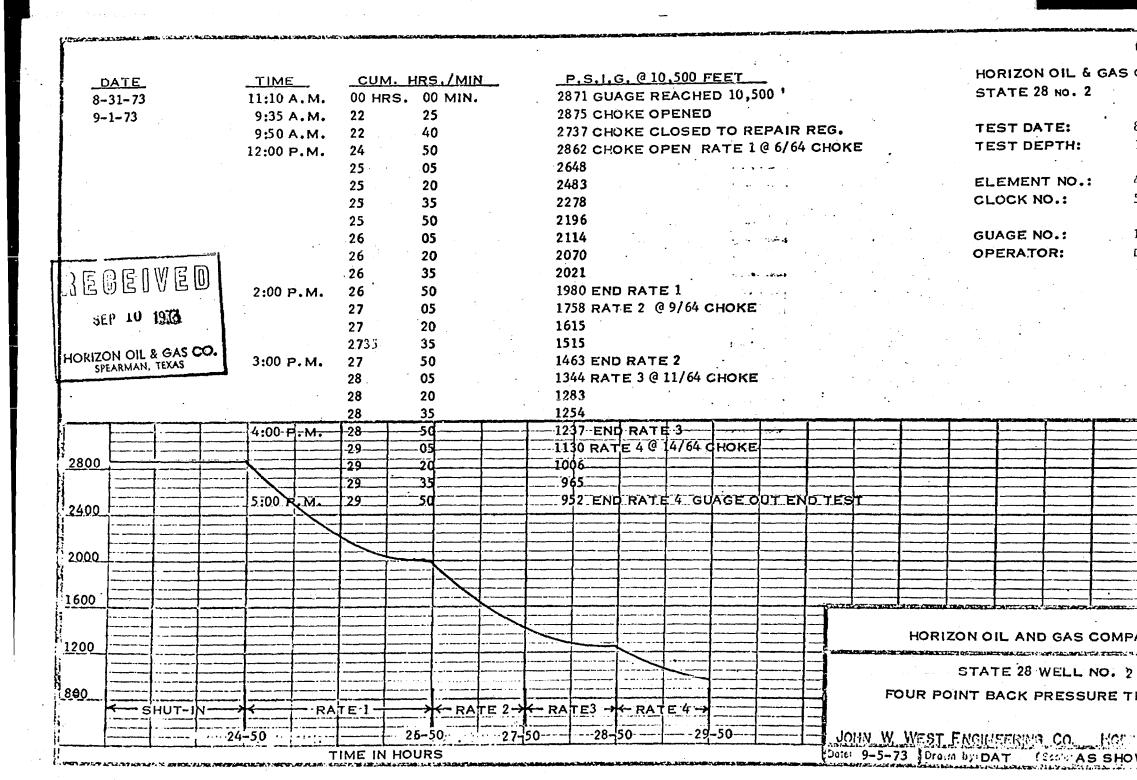
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				ı	Don	TYSO	N '		1	R	OY W	/EST				J.W.W.		

RECEIVED

HOMZON OIL & GAS CO.

HORIZON OIL AND GAS COMPANY STATE 28 WELL NO.2 TEST DATE SEPTEMBER 1,1973





ME	CUM.	HRS.	/MIN		_	P.S.	1.G. @	10,50	O FEET					HORIZ	ONOIL	& GAS	s co	
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	25	35			2	2278								CLOC	< NO.:		5124 (0-	-72HRS.
	25	50			2	2196												
ē	26	05			. 2	2114	•							GUAG	E NO.:		16163	
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Case 5080

OIL CONSERVATION COMM

Santa Fo

HORIZON



SPEARMAN, TEXAS September 21,

Oil Conservation Commission State of New Mexico Capitol Building Santa Fe, New Mexico 87501

Attention: D.S. Nutter

Re: State #28-2

Sec. 28, T17S, R-29E Eddy Co., New Mexico

Gentlemen:

As per our telphone conversation of this date, Attached please find Form C-107 which includes the following:

- 1. Application for Multiple Completion
- 2. Diagrammatic sketch
- 3. Plat of Lease and offset wells4. Copies of this application being mailed to Tenneco Oil Co., El Paso Natural Gas Co., & General American Oil Company of Texas.
- 5. Electric Log with tops

The above information plus the following is being forwarded to the Oil Conservation Commission in Artesia, New Mexico:

Form C-103 -Atoka, Morrow

Form C-104 -Atoka, Morrow Form C-105 -Atoka, Morrow

Form C-102 -Atoka

Packer leakage test

Packer setting report- Atoka, Morrow

Form C-122 -Atoka, Morrow

It is my understanding that the Hearing will be held October 17, 1973, in Santa Fe, New Mexico. If additional information is needed, please let us know.

DOCKET MAREO

Date 10-5-73

Yours very truly, HORTZON OIL & GAS CO. OF TEXAS

Everett R. Tracy

Production Manager

ERT: jc cc: Oil Conservation Commission, P.O. Drawer DD, Artesia, New Mexico (w/enc.) Tenneco Oil Company, 1200 Lincoln Tower Bldg., Denver, Colorado El Paso Natural Gas Co., El Paso, Texas (w/encl , Form C-107) General American Oil Co. of Texas, Dallas, Texas w/encl, Form 3-107)

file

APPLICATION FOR MULTIPLE COMPLETION CLASSOS OF MATTER STORY NOTION OIL & Gas Co. of Texas Bady APPLICATION FOR MULTIPLE COMPLETION COMPANDATION FOR MULTIPLE COMPLETION More and State Case Stat	•	•		RVATION COMMISSION	الم المساكرين	Form C-107
Horizon Oil & Gas Co. of Texas Eddy 9-20-73 COVIN			N FOR MUL	TIPLE COMPLETION		
Horizon Oil & Gas Co. of Texas	Operator				- CML COM	
Spearman, Texas John Section State 28-2 2 1 1 1 1 1 1 1 1	•	a.E. Marras	i		Date	- Santa Ta
Spearman, Texas 79081 Section Section Township Plange 29E 1. Has the New Mexico Oil Conservation Commission heteroforc authorized the multiple completion of a well in these same pools of in the same zones within one mile of the subject well? YES NO X 2. It answer is yes, identify one such instance: Older No. 1 Operator Lease, and Well No.: 3. The following facts are submitted: Uppet Intermediate Zone Zone Zone 2. Answer of Pool and Formation Attoka Morrow b. Top and Bottom of Pay Section 10,327 10,709 (Perforations) 10,341 10,709 (Perforations) 10,341 10,722 c. Type of production (Oil or Gas) Gas Gas Method of Production (Please check YES or NO) A The following are attached, (Please check YES or NO) A The following are attached, (Please check YES or NO) A The following are attached, (Please check YES or NO) A The following of Artificial Life Intermediate Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cenent, perforated intervals, dulps strings, including diameters and setting depths, location and type of packers and side door chocks, and such other intervals of all leases of site in applicant's lease, all offact wells on offset leases, and the nances and addresses of operators of all leases of site in applicant's lease, all offact wells on offset leases, and the nances and addresses of operators of all leases of site in applicant's lease, all offact wells on offset leases, and the nances and addresses of operators of all leases of site in applicant's lease, all offact wells on offset leases, and the nances and addresses of operators of all leases of site in applicant's lease, all offact wells on offset leases, and the nances and addresses of operators of all leases of all leases of the applicant's lease, all offset wells on offset leases, and the nances and addresses of operators of all leases of all leases of s		or rexas		ddy		73
Location Location		_	1		1	
1. Has the New Mexico Oil Conservation Commission heretofore authorized the multipie completion of a well in these same pools or in the same zones within one mile of the subject well? YES NO X NO X Operator Lease, and Well No.: 3. The following facts are submitted: Upper Intermediate Lower Zone Zone			St	ate 28-2		
1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools of in the same zones within one mile of the subject well? YES	Location		1	· .	1	N.
a. Name of Pool and Formation Atoka Atoka Morrow B. Top and Bottom of Pay Section 10,327 10,709 (Perforations) 10,341 10,722 c. Type of production (Oil or Gas) Gas Gas d. Method of Production (Flowing or Artificial Lift) At the following are attached. (Please check YES or NO) Yes No a. Diagrammatic Sketch of the Multiple Completion, showing all easing 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 depths, location and type of packers and side door checks, and other information as may be pertinent. Diagrammatic Sketch of the Multiple Completion, showing all easing strings, including diameters and setting depths, centralizers and door checks, and other information as may be pertinent. Diagrammatic Sketch of the Multiple Completion, showing all easing strings, including diameters and setting depths, location and type of packers and side door checks, and other information as may be pertinent. Diagrammatic Sketch of the Multiple Completion of the completion of the completion of setting and type of packers and side door checks, and other information as may be pertinent. Diagrammatic Sketch of the Multiple Completion of setting and type of packers and side door checks, and other information as may be pertinent. Diagrammatic Sketch of the Multiple Completion of setting and type of packers and side door checks, and the rule of operation of operations of operators of all leases of setting applicant's lease, all offset wells on offset eleases, and the names and addresses of operators of all leases offsetting applicant's lease, all offset wells on offset eleases, and the names and addresses of operators of all leases of setting applicant's lease, all offset wells on offset eleases, and the names and addresses of operators of setting and setting applicant's lease, all offset wells on offset eleases, and the names and addresses of operators of s	zones within one mile of the subje	ct well? YES	NO_X	· 		
a. Name of Pool and Formation Atoka Morrow b. Top and Bottom of Pay Section 10,327 10,709 (Perforations) 10,341 10,722 c. Type of production (Oil or Gas) Gas Gas d. Method of Production (Flowing or Artificial Lift) flowing flowing 4. The following are attached. (Please check YES or NO) Yes No a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, coction and type of practices and poor checks, and to their information as may be pertinent. No	3. The following facts are submitted:	Upper		Intermediate		Lower
b. Top and Bottom of Pay Section 10,327 10,341 10,709 10,772 c. Type of production (Oil or Gas) d. Method of Production (Flowing or Artificial Litt) flowing Thowing T		1		1		
Pay Section (10,327 10,341 10,709 10,772 10,709 10,772 c. Type of production (Oil or Gas) Gas Gas Gas d. Method of Production (Flowing or Artificial Lift) flowing (Flowing are attached, (Please check YES or NO) Yes 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. Delta showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and address of operators of all leases offsetting applicant's lease, all offset wells on offset leases, and the names and address of operators of all leases of such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* See cover Letter & distribution below distacted thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) Liet all offset operators to the lease on which this well is located together with their correct mailing address. Tenneco Oil Company, 1200 Lincoln Tower Bldg., Denver, Colorado 80203 El Paso Natural Gas Company, Box 1492, El Paso, Texas 79999 General American Oil Company of Texas, Meadows Building, Dallas, Texas 75206	a. Name of Pool and Formation	Atoka				Morrow
(Perforations) 10,341 10,722 c. Type of production (Oil or Gas) Gas d. Method of Production (Flowing or Artificial Lift) flowing flowing 4. The following are attached. (Please check YES or NO) Yes 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 depths, centralizers and vort urbolizers and location and type of packers and side door chokes, and such other information as may be pertinent. **Example No.** 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. 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.* See cover Letter & distribution below d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 1124.) 5. Liet all offset operators to the lease on which this well is located together with their correct mailing address. Tenneco Oil Company, 1200 Lincoln Tower Bldg., Denver, Colorado 80203 El Paso Natural Gas Company, Box 1492, El Paso, Texas 79999 General American Oil Company of Texas, Meadows Building, Dallas, Texas 75206 CERTIFICATE: I, the undersigned, state that I am the Production Manager of the North Company to make this report; and that this report was prepared near my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.	b. Top and Bottom of	10.007				
c. Type of production (Oil or Gas) d. Method of Production (Flowing of Artificial Lift) flowing flo	Pay Section	1			j	- ,
d. Method of Production (Flowing or Artificial Lift) 4. The following are attached, (Please check YES or NO) Yes 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. Delta 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. C. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators who been furnished copies of the application.* See cover letter & distribution below d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) List all offset operators to the lease on which this well is located together with their correct mailing address. Tenneco 0i1 Company, 1200 Lincoln Tower Bldg., Denver, Colorado 80203 El Paso Natural Gas Company, Box 1492, El Paso, Texas 79999 General American 0i1 Company of Texas, Meadows Building, Dallas, Texas 75206 CERTIFICATE: 1, the undersigned, state that I am the Production Manager of the Horizout 0il & Gas Co.of Texas (company), and that I am authorized by said company to make this report and that this report was prepared noter my supervision and ditection and that the facts stated therein are true, correct and complete to the best of my knowledge.						10,722
(Flowing or Artificial Lift) flowing flowing flowing 4. The following are attached. (Please check YES or NO) Yes 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 sied door other information as may be pertinent. Description of all leases offsetting applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. Description of all leases offsetting applicant's lease, all offset wells on offset leases, and the names and addresses of operators have been furnished copies of the application. See cover letter & distribution below Example of the well of 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.) List all offset operators to the lease on which this well is located together with their correct mailing address. Tenneco Oil Company, 1200 Lincoln Tower Bldg., Denver, Colorado 80203 El Paso Natural Gas Company, Box 1492, El Paso, Texas 79999 General American Oil Company of Texas, Meadows Building, Dallas, Texas 75206 CERTIFICATE: I, the undersigned, state that I am the Production Manager of the librication Oil & Gas Co.of. Texas (company), and that I am authorized by said company to make this report; and that this report was prepared noter my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.		Gas		<u></u>		Gas
4. The following are attached. (Please check YES or NO) Yes 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. Delta 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. 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.* See cover letter & distribution below Delta the thereon, (if such log is not available at the time application is filed it shall be submitted as provided by Rule 1124.) S. List all offset operators to the lease on which this well is located together with their correct mailing address. Tenneco Oil Company, 1200 Lincoln Tower Bldg., Denver, Colorado 80203 El Paso Natural Gas Company, Box 1492, El Paso, Texas 79999 General American Oil Company of Texas, Meadows Building, Dallas, Texas 75206 Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO If answer is yes, give date of such notification _ 9-20-73 CERTIFICATE: , the undersigned, state that I am the _ Production Manager of the		flowing				florging
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. Description Descrip						Tiowing
date of such notification 9-20-73 CERTIFICATE: 1, the undersigned, state that I am the Production Manager of the Horizon Oil & Gas Co.of Tex (company), and that I am authorized by said company to make this report; and that this report was prepared inder my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.	of operators of all X c. Waivers consenting tors have been furned at Electrical log of the dicated thereon. (If List all offset operators to the lear Tenneco Oil Company, 1 El Paso Natural Gas Co	teases offsetting applicant to such multiple completions of the applicant well or other acceptabilities and available se on which this well is 1 200 Lincoln Tower mpany, Box 1492,	etion from earlication.* Se lication.* Se le log with the at the time ocated together. El Paso,	ch offset operator, or in lice cover letter & cops and bottoms of production is filed it shall be with their correct mailing Denver, Colorado Texas 79999	u thereof, ev listribut ing zones an I be submitte ng address. 80203	idence that said offset opera- ion below id intervals of perforation in- d as provided by Rule 112-A.)
Standure	date of such notification 9-20-	, state that I am the Processing that I am	oduction authorized b	Manager of the said company to make this correct and complete to the	ne <u>HOULZOU</u> s reports and e best of my	Oil & Gas Co.of Tex that this report was prepared knowledge.
· · · · · · · · · · · · · · · · · · ·				Marina	Signature	

^{*}Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Gommission will hold the application for a period of twenty (20) days from date of receipt by the Gommission'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.

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

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perator	£ ==	County	Date See 1
Horison Oil & Gas Co.	of Texas	ßddy	9-20-73
ddre B. U. Box 7		Leaso	Well No.
Spearman, Texas 79081		State 28-2	2
ocution	ection	Township	Range
	28	178	298
zones within one mile of the subject If answer is yes, identify one such	t well? YES	NO_X	npletion of a well in these same pools or in the sa
The following facts are submitted:	Upper Zone	Interm Zo	
a. Name of Pool and Formation	Atoka	3	Morrow
b. Top and Bottom of	10 207		
Pay Section	10,327		10,709
(Perforations)	10,341		10,722
c. Type of production (Oil or Gas)	Gab		Gas
d. Method of Production	flowing		flowing
(Flowing or Artificial Lift) The following are attached. (Please	<u> </u>	L	
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*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conscreation 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.

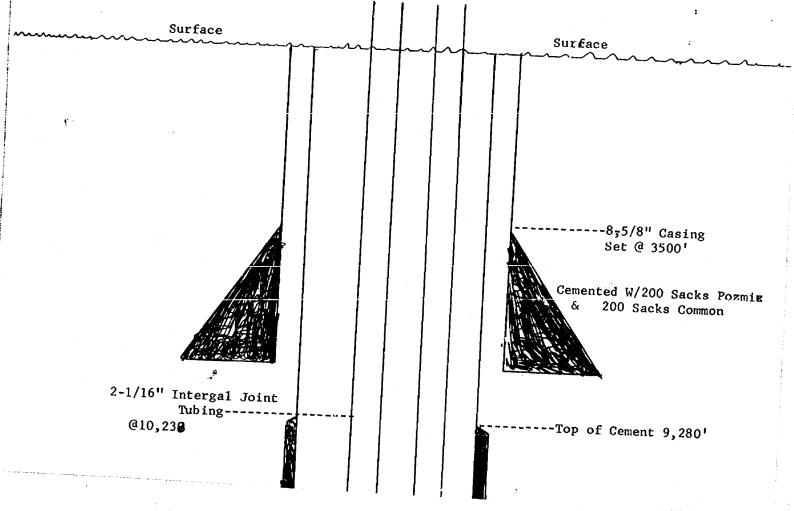
NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C - 107 5-1-61

	as Co. of Texas	County Eddy		9-20-73
dre 5.0. Box 7		Lease		Yell No.
Spearman, Texas	79081	State 2		2 Range
ocation of Well K	28	178	ľ	29E
zones within one mile of t	the subject well? YES	NO_X		well in these same pools or in the s
The following facts are su	ubmitted:	Upper	Intermediate	Lower
		Zone	Zone	Zone
a. Name of Pool and Form	nation Ato	KS		Merrow
b. Top and Bottom of	10,3	27		10,709
Pay Section (Perforations)	10,3			10,722
c. Type of production (Oil	Lor Gas) Gas			Gas
d. Method of Production	10.003)	<u> </u>		
(Flowing or Artificial	1 Lift) flow	log		flowing
The following are attached	d. (Please check YES o	r NO)		
d. Electrical dicated the	log of the well or other ereon. (If such log is no o the lease on which th	er acceptable log with tops an ot available at the time applica is well is located together with	d bottoms of producing tion is filed it shall be their correct mailing a	zones and intervals of perforation submitted as provided by Rule 112 ddress.
d. Electrical dicated the List all offset operators to Tennaco Dii Compe	log of the well or othereon. (If such log is no othereon, 1200 Lincol Li	er acceptable log with tops and available at the time applicate well is located together with Tower Bldg., Denve 1492, 51 Paso, Toxa	d bottoms of producing tion is filed it shall be their correct mailing at Colorado 802	zones and intervals of perforation submitted as provided by Rule 112 ddress. 203
d. Electrical dicated the List all offset operators to Tenneco Dii Compe	log of the well or othereon. (If such log is no othereon, 1200 Lincol Li	er acceptable log with tops and available at the time applicates well is located together with Tower Bldg., Detwo	d bottoms of producing tion is filed it shall be their correct mailing at Colorado 802	zones and intervals of perforation submitted as provided by Rule 112 ddress. 203
d. Electrical dicated the List all offset operators to Tenneco Dil Compe	log of the well or othereon. (If such log is no othereon, 1200 Lincol Li	er acceptable log with tops and available at the time applicate well is located together with Tower Bldg., Denve 1492, 51 Paso, Toxa	d bottoms of producing tion is filed it shall be their correct mailing at Colorado 802	zones and intervals of perforation submitted as provided by Rule 112 ddress. 203
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tors have to d. Electrical dicated the List all offset operators to Tenneco Dii Compe El Paso Naturel Compe El	log of the well or othereon. (If such log is not the lease on which the ny, 1200 Lincol Company, Box Oil Company of Director 5-above notified dersigned, state that I a (company), and	er acceptable log with tops and available at the time application and its well is located together with Tower Bldg., Detive 1492, El Paso, Toxal Texas, Headows Build and furnished a copy of this am the Production Management of that I am authorized by said of the available of that I am authorized by said of the available of the control	d bottoms of producing tion is filed it shall be to their correct mailing a r, Colorado 80% a 79999 ing, Dallas, Texapplication? YES	zones and intervals of perforation submitted as provided by Rule 112- ddress. 203 AND If answer is yes, giver the port; and that this report was preparent.
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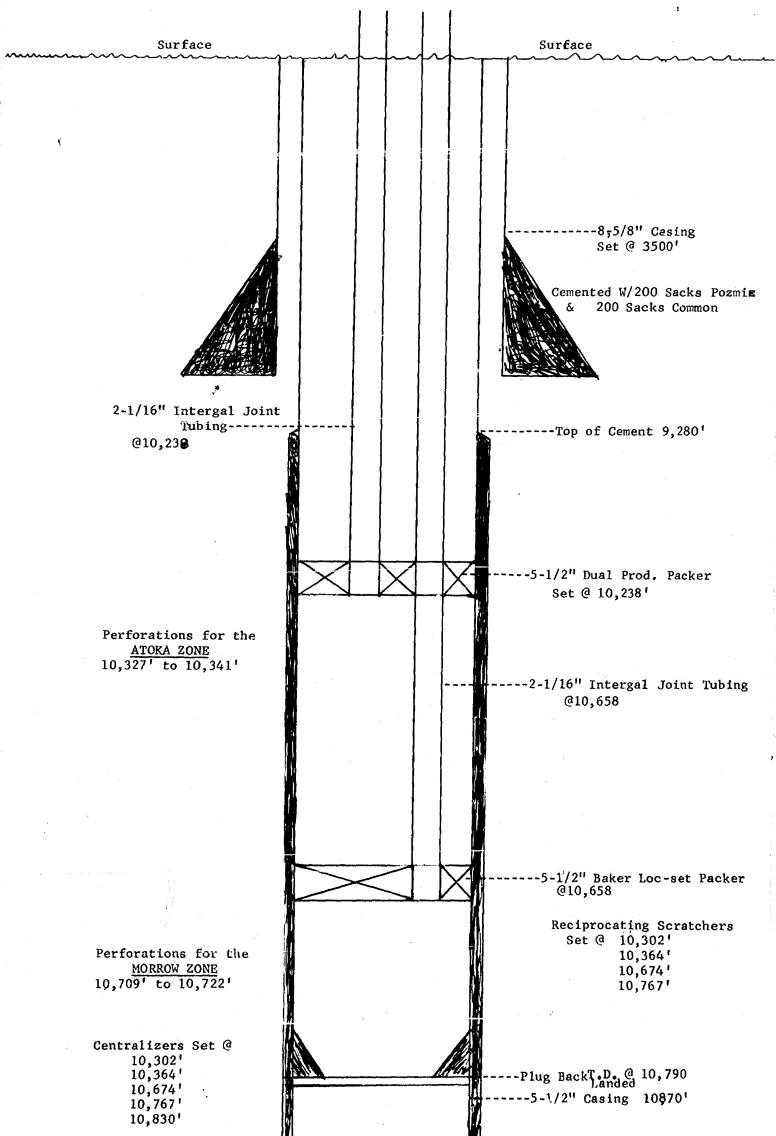
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

HORIZON OIL & GAS CO. OF TEXAS STATE 28-2 Sec. 28 - 17S - 29E Eddy County 1980' from South & West Lines G.L. Elev. 3571.4'



Can 5080

STATE 28-2 Sec. 28 - 17S - 29E Eddy County 1980' from South & West Lines G.L. Elev. 3571.4'



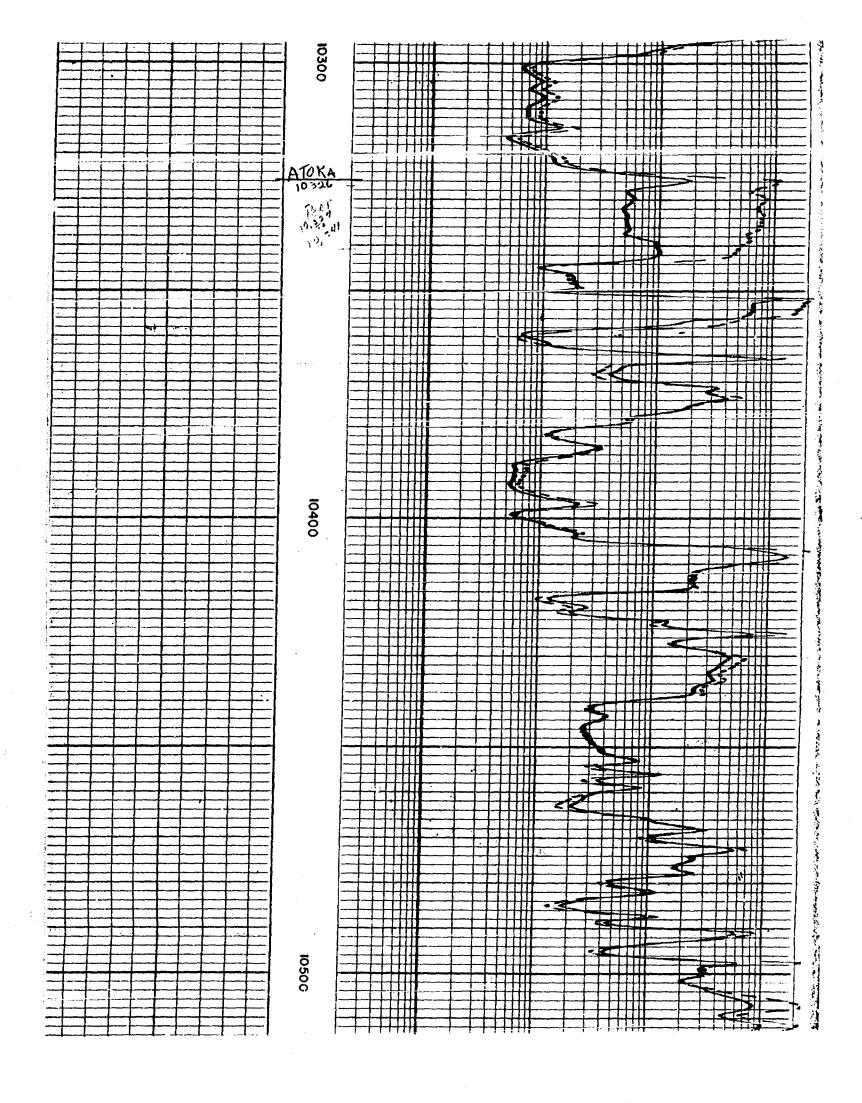
20	21 H.O.G. State 21-1	El Paso Leonard State #1
29	H.O.G. State 28-1 28 H.O.G. State 28-2	27
32	33	34

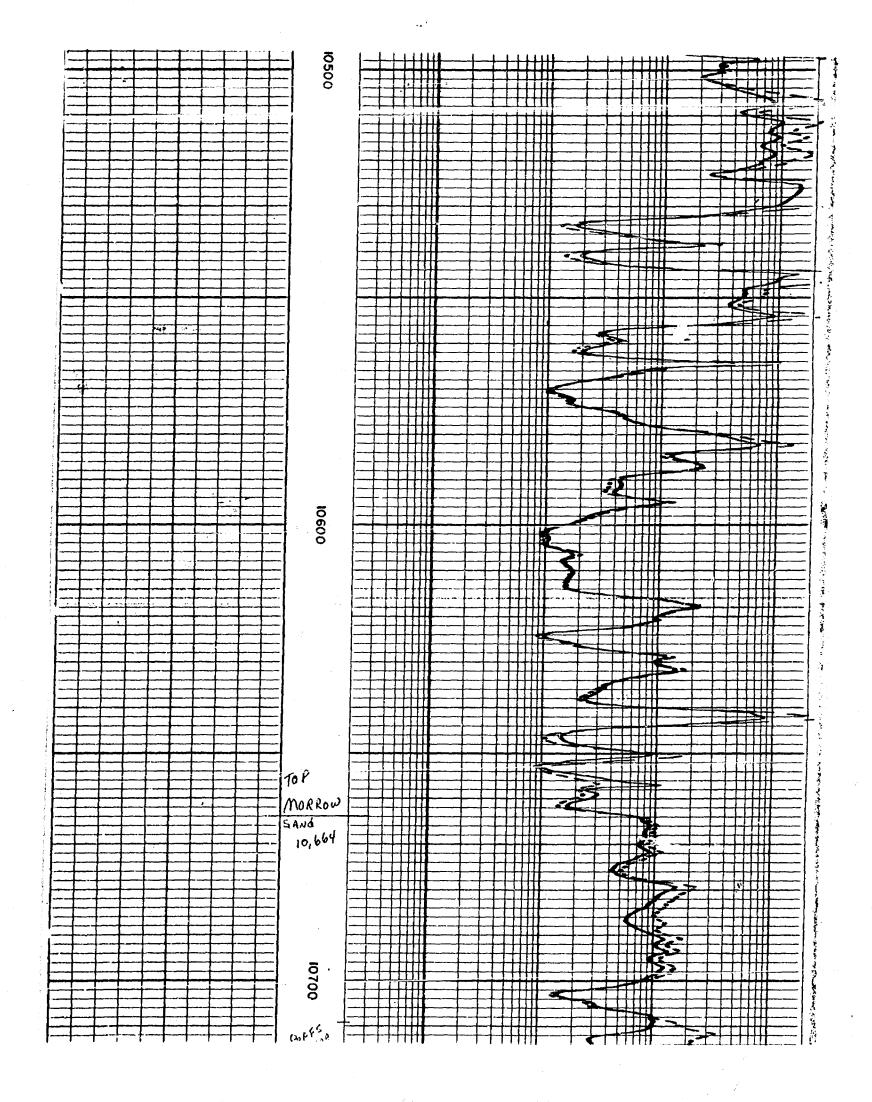
HORIZON OIL & GAS CO. OF TEXAS

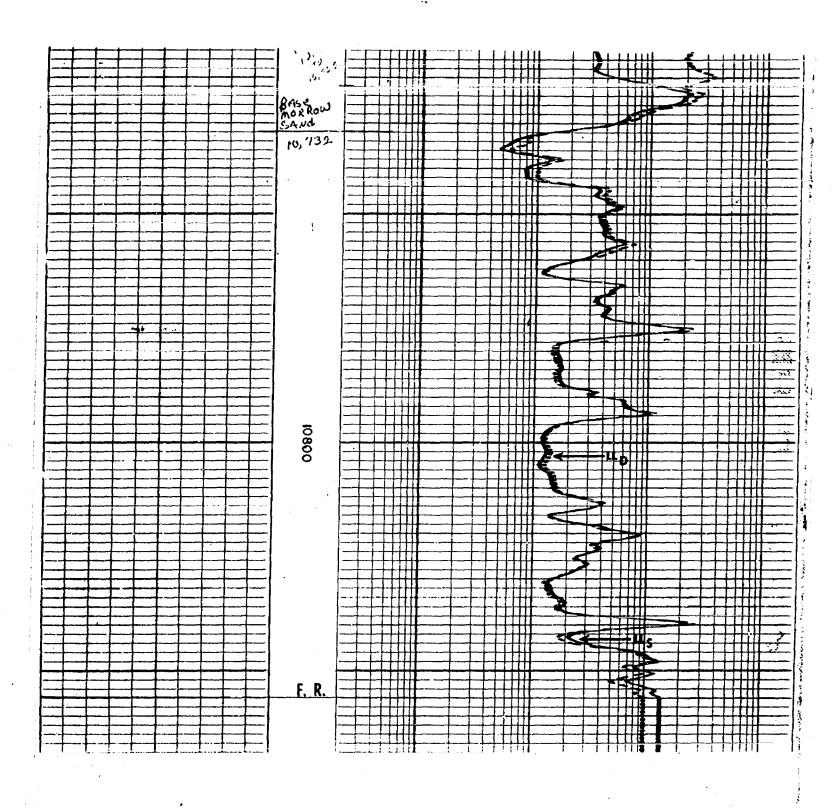
State #28-2

1980' from South & West lines
Sec 28-17S-29E
Eddy County, New Mexico
Elev. G.L. 3571.4

	umberger DUM (A	árolog		Scale Down Hole			6						
(MORROW) 28 TIL & GAS	COMPANY HORIZON OIL & GAS CO.	OF TEXAS	customer.	Scal									
EDDY GRAYBURG STATE #2- HORIZON C	WELL STATE #2-28	·	by the	Scale Up Hole									
EDDY GRAYBURG STATE #2- HORIZON C	FIELD GRAYBURG (MORROW)		furnished by	Scale (
		NEW MEXICO							90066				
COUNTY—FIELD or LOCATION WELL	LOCATION 1980' FSL & 1980' FWL	Other Services:	were	Depth					O				
COUNTY— FIELD or LOCATION— WELL— COMPANY—	Sec. 28 Twp. 17-5 Rge. 29-	CNL-FDC	data	SS									
Permanent Datu Log Measured F Drilling Measure			reference	Type log					RKS Order No.	Serial No			
Date Run No.	6-4-73 ONE		borehole	SCALE					REMARK Service O	API Ser			
Depth—Driller Depth—Logger	10890 10870		por		Ē	n h	<u>u</u> .	r r r				++	++-
Btm. Log Interva	1 10856		- le	SAMPLES									
Top Log Interval Casing—Driller	8 5/8@3500 @ @	@	[.¥]	-1 []		(a) (a)	(a)	@ @ @					
Casing—Logger Bit Size	3499 77/8		_ <u>o</u>	ONAL									
Type Fluid in Ho	FULL			ADDII	Ē	# 1	#	r r					
Dens. Visc. pH Fluid Los	10 37 ml ml	ml r		∀ 5		00	@	3 (a) (a)				1	
Source of Samp		°F @ °									mal.	4-6	
R _{mt} @ Meas, Tem R _{mc} @ Meas, Tem	o. 036 194 °F (11 °F (11	°F (11	FI R	7 17PE					ONE		242	11/8	13
Source: Rmf Rm	M C	·		o Z		وَ وَ	Range.		DATA	TI	T	11	
R _m @ BHT Timo Since Circ.	.024 @ 146 °F	°F (1)	F	te Sample No. oth - Driller se Fluid in Hole	Visc.	(if Meas. Temp.	١ ١٣				ó		
Max. Rec. Temp.	11 HOURS 146 °F °F	o k	F		igi.	de as	الله الله	洪물	Z.		ZZZ	2	3
Equip. Location	7646 HOBBS		P HERE			ince of Sample in the Meas. Ter	urce: Rmf	A (S) SHT	N S S	8 8 :	n. Panel No.	Panel No.	ed-F.P.M.
Recorded By	CREEK	<u>, , , , , , , , , , , , , , , , , , , </u>	19113	기위되었	ا انوا	<u> </u>	J 5	ابر اید ام		-اندان	راء ام	- Z	121







dr/ (w)

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 5080
Order No. R-4655

APPLICATION OF HORIZON OIL & GAS COMPANY OF TEXAS FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 17, 1963, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of october, 1963, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

- (3) That the mechanics of the proposed <u>dual</u> completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Horizon Oil & Gas Company of Texas,
is hereby authorized to complete itsState 28
Well No. $\frac{2}{}$, located in Unit $\frac{K}{}$ of Section $\frac{28}{}$, Township
17 South, Range 29 East NMPM, Eddy County, New ZWest
Mexico, as a <u>dual</u> completion (conventional) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
from the Grayburg-Morrow Gas Pool XTHYKKIK and an
from the Grayburg-Morrow Gas Pool **PRONTING** and an undesignated Atoka Gas Pool through parallel strings of tubing.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission 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 Shuf-In Pressure

Gas Oil Ratio Test Period for the Grayburg-Marrow Gas Pool.

Deliverability

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated. Everett Tracy
Prom
Memo
D. S. NUTTER
P.O. Box 7 Speaker Missing
79081
To
Harizon Oil & Gas Co
Harizon
Repearer
Repearer
Repearer
Repearer Specimen, Ex Stale 28 Well no 2 1480 FSL 1980 FWL 28-175-29E Eddy Co. mourant Ataka garallel Star of Juning Wood Dray hory Morrow