

CASE 3546: Application of STOLTZ
& COMPANY for an unorthodox loca-
tion, Eddy County, New Mexico.

CASE No.
3546

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

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. 3546
Order No. R-3213

APPLICATION OF STOLTZ & COMPANY
FOR AN UNORTHODOX LOCATION, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 5, 1967,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 11th day of April, 1967, 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, Stoltz & Company, seeks approval of
the unorthodox location in an undesignated Strawn (Pennsylvanian)
gas pool of its Hudson-Federal Well No. 1 at a point 838 feet
from the North line and 1650 feet from the West line of Section
4, Township 21 South, Range 29 East, NMPM, Eddy County, New
Mexico, to be dedicated to a non-standard 301.30-acre unit com-
prising Lots 1 through 8 of said Section 4.

(3) That the subject well was drilled as a wildcat oil well
at a standard oil well location to test the Strawn formation.

(4) That the Strawn formation proved to be productive of
gas rather than oil at said location.

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CASE No. 3546
Order No. R-3213

(5) That approval of the subject application will prevent waste and will not violate correlative rights.

IT IS THEREFORE ORDERED:


(1) That an unorthodox location is hereby approved for the Stoltz & Company Hudson-Federal Well No. 1, located 838 feet from the North line and 1650 feet from the West line of Section 4, Township 21 South, Range 29 East, NMPM, undesignated Strawn (Pennsylvanian) gas pool, Eddy County, New Mexico, to be dedicated to a 301.30-acre non-standard unit comprising Lots 1 through 8 of said Section 4.


(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.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON B. HAYS, Member


A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

State of New Mexico
Oil Conservation Commission



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

APR 11, 1967

Re: Case No. 3546
Order No. R-3213
Applicant:
STOLTZ & COMPANY

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

A. L. PORTER, Jr.
Secretary-Director

Carbon copy of order also sent to:

Hobbs OCC x
 Artesia OCC x
 Aztec OCC
 Other

Page 3546

BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF STOLTZ & COMPANY FOR APPROVAL
OF AN UNORTHODOX LOCATION, EDDY
COUNTY, NEW MEXICO

C-4-21-1
L. don. Fed #1

A P P L I C A T I O N

Comes now STOLTZ & COMPANY, a partnership composed of Deane H. Stoltz, Cyril Wagner, Jr., and Jack E. Brown, and applies to the Oil Conservation Commission of New Mexico for approval of an unorthodox location for its gas well located in Section 4, Township 21 South, Range 29 East, N.M.P.M., Eddy County, New Mexico, and in support thereof would show the Commission:

1. Applicant drilled its well as a wildcat well, located 838 feet from the north line and 1650 feet from the west line of said Section 4, Township 21 South, Range 29 East, N.M.P.M.
2. Applicant's well was projected as a Strawn oil test, as a wildcat well, and was properly located for such oil test, under the provisions of the rules and regulations of the Oil Conservation Commission.
3. Said test well was completed for the production of gas from the Strawn formation, and is an unorthodox location for gas production under the provisions of Rule 104.
4. Applicant proposes to dedicate to said well,

DOCKET MAILED

Date 3-23-67

as provided by Rule 104 of the Commission's rules and regulations, the following described acreage:

Township 21 South, Range 29 East, N.M.P.M.

Section 4 - Lots 1, 2, 3, 4, 5, 6, 7, 8
containing 301.28 acres, more or less, Eddy County, New Mexico.

5. Attached hereto, and made a part of this application is a plat showing the well location, acreage to be dedicated to said well, and offsetting acreage, to the best of applicant's information and belief.

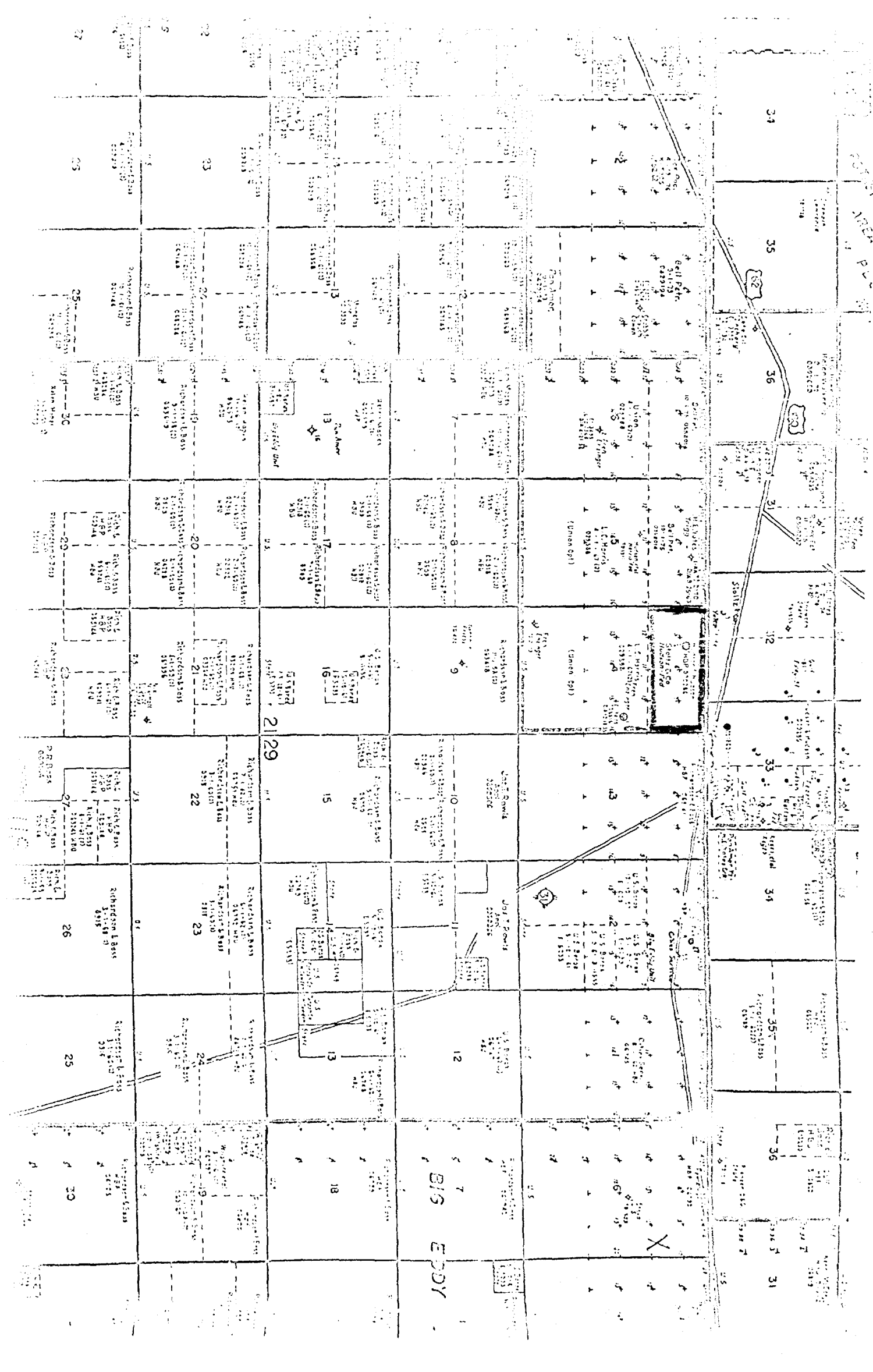
WHEREFORE, applicant prays that this application be set for hearing before the Commission's duly appointed examiner, and that after notice and hearing as provided by law, the unorthodox location of applicant's well be approved.

Respectfully submitted,

STOLTZ & COMPANY

BY: Jason W. Kellahin
KELLAHIN & FOX
Post Office Box 1769
Santa Fe, New Mexico

Attorneys for Applicant



BIG EDDY

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DOCKET: EXAMINER HEARING- WEDNESDAY- APRIL 5, 1967

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 Elvis A. Utz, Alternate Examiner:

- CASE 3545: Application of John Yuronka and Robert E. Chandler for compulsory pooling, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order force-pooling all mineral interests underlying the S/2 SW/4 and NE/4 SW/4 of Section 7, Township 22 South, Range 38 East, Lea County, New Mexico, from the surface to the base of the Drinkard formation or to 7400 feet, whichever is the lesser, but excluding the Granite Wash; in the alternative applicants seek the force-pooling in the above-described vertical interval underlying the SW/4 SW/4 only of said Section 7.
- CASE 3546: Application of Stoltz & Company for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the unorthodox location in an undesignated Pennsylvanian gas pool of its Hudson-Federal Well No. 1 at a point 838 feet from the North line and 1650 feet from the West line of Section 4, Township 21 South, Range 29 East, Eddy County, New Mexico.
- CASE 3547: Application of Skelly Oil Company for a waterflood expansion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order amending Order No. R-2900 to expand the waterflood interval authorized by said order to include the entire Grayburg-Jackson producing interval, to permit the conversion to water injection of 18 additional wells in Sections 14, 15, 22, 23, 26, and 27, Township 17 South, Range 31 East, and further to provide for administrative expansion of said project.
- CASE 3548: Application of Sinclair Oil & Gas Company for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled-cause, seeks approval of the unorthodox location in an undesignated Pennsylvanian gas pool of its Trigg-Federal Well No. 1 at a point 1980 feet from the North line and 660 feet from the West line of Section 27, Township 18 South, Range 27 East, Eddy County, New Mexico.
- CASE 3549: Application of Tesoro Petroleum Corporation for an unorthodox location, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for a well to be drilled 1330 feet from the South line and 2310 feet from the West line of Section 1, Township 17 North, Range 9 West, South Hospah Field, McKinley County, New Mexico.
- CASE 3400 (Reopened)

In the matter of Case No. 3400 being reopened pursuant to the provisions of Order No. R-3064, which order established 160-acre

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Examiner Hearing - April 5, 1967

(Case 3400 continued)

spacing units and a gas-oil ratio of 4000 to 1 for the Big Eddy-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre or 80-acre spacing units and why the limiting gas-oil ratio should not revert to the Statewide limit of 2000 to one.

CASE 3550: Application of Kennedy Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through three wells located in Sections 27 and 28, Township 16 South, Range 31 East, Square Lake Pool, Eddy County, New Mexico.



dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS
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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
April 5, 1967

EXAMINER HEARING

IN THE MATTER OF:

Application of Stoltz and
Company for an unorthodox
location, Eddy County, New
Mexico.

Case 3546

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: The Hearing will come to order, please. The next Case is 3546.

MR. HATCH: Case 3546. Application of Stoltz and Company for an unorthodox location, Eddy County, New Mexico.

MR. KELLAHIN: Jason Kellahin, appearing for the applicant. We have one witness that we would like to have sworn, please.

(Witness sworn.)

JOHN YURONKA, called as a witness on behalf of the applicant having first been duly sworn was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A John Yuronka.

Q What business are you engaged in, Mr. Yuronka?

A Consulting Engineer and Oil Well Operator.

Q Where are you located?

A Midland, Texas.

Q Have you testified before the Oil Conservation Commission of New Mexico?

A Yes, I have.

MR. KELLAHIN: Are the witnesses' qualifications

acceptable?

MR. NUTTER: Yes, they are.

Q (By Mr. Kellahin) Mr. Yuronka, are you familiar with the application of Stoltz and Company that is now before the Commission?

A Yes, I am.

Q Briefly, what is being proposed here?

A This well was drilled as a Wildcat with the locations staked and with the subsequent completion of the well, a gas distillate well was obtained and they now desire to dedicate 301.30 acres to the well.

(Whereupon Applicant's Exhibits
1 through 4 were marked for
identification)

Q (By Mr. Kellahin) Referring to what has been marked as Exhibit Number One, would you identify that Exhibit, please?

A Exhibit Number One is a land plat of the general area with the proration unit outline in yellow. The well involved, which is the Hudson Federal Number One, is located in Lot 3 of Section 4, Township 21, South Range 29 East.

Q Now, referring to what has been marked as Exhibit Number Two, would you identify that exhibit?

A Exhibit Number Two is a land plat filled with the Commission when the Well was originally staked. There are

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some blanks on it, which it is merely a copy. For instance, the producing formation was stated as the Strawn on the copy that is in the Commission files. The pool was stated as a Wildcat and the dedicated acreage was stated as forty acres. Actually the acres involved in this particular lot is less than forty acres because of the survey situation and it is one of these odd situations where you have a long section.

Q What is the Well location?

A The location of the Well is 838.4 feet from the north line and 1650 feet from the west line of Section 4, Township 21, South, Range 29, East, Eddy County, New Mexico.

Q Would that be an orthodox location for an oil well?

A Yes, sir.

Q Did you examine the Plat in the Commission's file?

A Yes, sir.

Q Did that show on the Notice of the Intention to Drill that the well was projected as an oil well?

A I don't know. All they had outlined for acreage dedicated to it, was the lot on which the well was staked.

Q But the well has been completed as a Strawn Gas Well?

A Yes, sir.

Q So, it is in the same formation?

A Yes.

Q Now, referring to what has been marked as Exhibit Number Three, would you identify that Exhibit?

A Exhibit Number Three is Form 9-330 filed with the United States Department of Interior, Geological Survey and is a well completion report of the well involved.

Q And Exhibit Number Four?

A Exhibit Number Four is a New Mexico Oil Conservation Commission Form C-122 which is the multipoint and one point backpressure test for a gas well.

Q That indicates that this is a gas well?

A Yes, sir.

Q Are you familiar with the acreage now proposed to be dedicated to the well?

A Yes, sir.

Q That consists of individual lots, numbers one through eight?

A Yes, sir.

Q In the Section?

A Yes, sir.

Q Do you know what the total acreage is?

A 301.30 acres.

Q And it would require in addition to the approval of the unorthodox location, the approval of the unorthodox unit, is that correct?

A Yes.

Q And is this what Mr. Stoltz is asking for?

A Yes.

MR. KELLAHIN: At this time, I would like to offer in evidence Exhibits One through Four.

MR. NUTTER: Exhibits One through Four will be admitted to evidence.

(Whereupon Applicant's Exhibits 1 through 4 were admitted in evidence)

MR. KELLAHIN: That's all I have on this.

CROSS EXAMINATION

BY MR. NUTTER:

Q What was the acreage again obtained in this unit, 301 point what?

A 301.30 acres.

Q This is that well that blew out and caught fire last winter, isn't it?

A Yes.

MR. NUTTER: Are there any further questions of Mr. Yuronka? He may be excused.

(Witness excused)

MR. NUTTER: Do you have anything further?

MR. KELLAHIN: Nothing further.

MR. NUTTER: Does anyone have anything they wish

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to offer in Case 3546? We will take the case under advisement.

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STATE OF NEW MEXICO)
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COUNTY OF BERNALILLO)

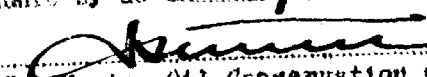
I, JERRY POTTS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached transcript of hearing was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.


Notary Public

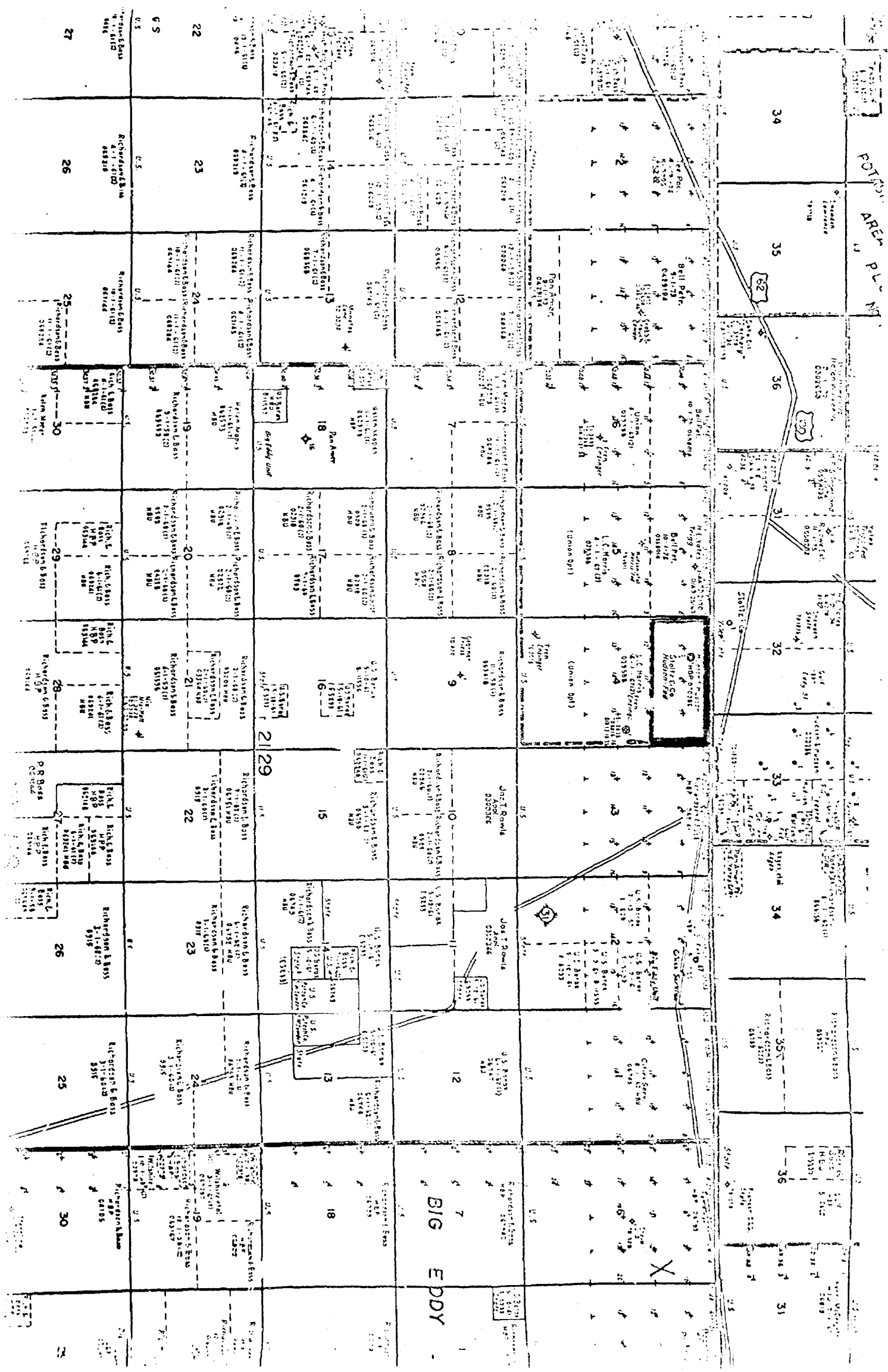
My Commission Expires:

7-10-70

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. **3546** heard by me on 4/5 19 **67**.

 Examiner
New Mexico Oil Conservation Commission

POTTS AREA PL. N



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator STOLTZ AND COMPANY			Lease HUDSON FEDERAL		Well No. 1
Unit Letter C	Section 4	Township 21 SOUTH	Range 29 EAST	County EDDY	
Actual Footage Location of Well:					
838.4		feet from the	NORTH	line and	1650
				feet from the	WEST
Ground Level Elev. 3428.7	Producing Formation		Pool		Indicated Acreage: Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

	<p align="center">CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p>
	<p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p>
	<p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p>
	<p>Date Surveyed 5/21/66</p>
	<p>Registered Professional Engineer and/or Land Surveyor <i>John W. West</i></p>
	<p>Certificate No. 676</p>

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> FLAG BACK <input type="checkbox"/> DIFTY RESUR. <input type="checkbox"/> Other _____	
2. NAME OF OPERATOR Stoltz & Company			
3. ADDRESS OF OPERATOR c/o Oil Reports & Gas Services, Box 763, Hobbs, N. M.			
4. LOCALITY OF WELL (Report location clearly and in accordance with any state requirements)* 838.4' FNL & 1650' FNL of Section 4 At top of interval reported below At total depth			
15. DATE SPEUDED 8/19/66		16. DATE T.D. REACHED 10/25/66	
17. DATE COMPL. (Ready to prod.) 11/8/66		18. ELEVATIONS (DF, RND, ET, CR, ETC.)* 3428.7 CR	
20. TOTAL DEPTH, MD & TVD 11,653		21. PLUG, BACK T.D., MD & TVD 11,170	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY →	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 11,098-11,102		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Logs furnished directly by logging Company		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
16	55#	566	20
11 3/4	42#	1624	15
8 5/8	24#	4052	11
5 1/2	17# & 20#	11,475	7 7/8
CEMENTING RECORD		AMOUNT PULLED	
400		None	
1075		None	
1075		None	
675		None	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
2 3/8			
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	10,976	10,970	
31. PERFORATION RECORD (Interval, size and number) 11,098 to 11,102			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. No treatment - natural			
33. PRODUCTION			
DATE FIRST PRODUCTION 11/8/66		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flow	
DATE OF TEST 11/10/66		WELL STATUS (Producing or shut-in) Shut in	
HOURS TESTED 1	CHOKE SIZE 13/64	PROD'N. FOR TEST PERIOD →	OIL—BBL. 5.4
GAS—MCF. 172.9	WATER—BBL. None	GAS-OIL RATIO 32,000	
FLOW, TUBING PRESS. 3300	CASING PRESSURE Pkr	CALCULATED 24-HOUR RATE →	OIL—BBL. 129.7
GAS—MCF. 4150	WATER—BBL. None	OIL GRAVITY-API (COER.) 54.5	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold			
35. LIST OF ATTACHMENTS None			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED BY W. L. SMITH		TITLE Agent	
DATE 12/19/66		TEST WITNESSED BY Jack Brown	

*(See Instructions and Spaces for Additional Data on Reverse Side)

MULTIPOINT AND ONE POINT BACK PRODUCTION TEST FOR GAS WELL

Type Test		<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date		11/11/66	
Company				Connection			
Stoltz & Company				Wildcat			
Pool				Formation			
Wildcat				Unit			
Completion Date		Total Depth		Plug Back TO		Elevation	
11/11/66		11,653		11,170		3443' MD	
Csg. Size		WI.		Set At		Perforations:	
5 1/2"		20 #		11,470		From 11,400 To 11,302	
Tbg. Size		WI.		Set At		Perforations:	
2 3/8"		4.7 #		11,071		From 11,000 To 11,000	
Type Well - Single - Brodenhead G.G. or G.O. Multiple				Packer Set At		County	
Single				10,970		Lddy	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g	
11,071		152° 11,653		60°		15.2	
L		H		Gg		% CO ₂	
11,071		11,071		0.667		0.2	
				% N ₂		% H ₂ S	
				1.2		0.0	
				Prover		Meter Run	
						4"	
						Taps	
						Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	cl Flow
SI							300	80	Plu.	--	72
1.	4" x 1 1/2"			550	20	80	300	80	"	--	1
2.	4" x 1 1/2"			540	40	80	300	80	"	--	1
3.	4" x 2"			545	29	80	300	80	"	--	1
4.	4" x 2"			630	35	80	300	80	"	--	1
5.											

RATE OF FLOW CALCULATIONS - Tested through line heater.							
NO.	Coefficient (24 Hour) F _u	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow C, Mcfd
1	10.97	106.1	553.2	0.9813	1.224	1.098	1555.2
2	10.97	148.8	553.2	0.9813	1.224	1.104	2164.5
3	20.48	127.3	553.2	0.9813	1.224	1.115	3491.5
4	20.48	152.2	643.2	0.9813	1.224	1.137	4256.9
5							

NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	5.86	540	1.43	0.829	33.571	54.5	0.667	XXXXXX	666	377
2	5.71	540	1.43	0.820				XXXXXX		
3	5.48	540	1.43	0.804						
4	4.96	540	1.43	0.774						
5										

NO.	P ₁ ²	P _w	P _w ²	P ₁ ² - P _w ²
1	15313.1	3918.0	15355.4	1563.0
2	14540.5	3931.8	14681.2	2237.2
3	13419.0	3726.4	13986.1	3032.3
4	10977.3	3415.7	11667.0	5251.4
5				

$P_c = 4113.2$ $P_c^2 = 16918.4$

(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 7.562$

(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 7.470$

AOF = Q $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 16169$

Absolute Open Flow 16,300 Mcfd @ 15.025 Angle of Slope θ 0.994 Slope, n 0.994

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. E. Butler	D. J. Proctor	