

CASE 3633: Application of V. F.
VASICEK & J.M. FULLINWIDER, dba
V-F PETROLEUM FOR FORCE-POOLING.

Case Number

3633

Application

Transcripts.

Small Exhibits

ETC.

MAJOR, GIEBEL & FORSTER

F. O. MAJOR, GEOLOGIST
A. F. GIEBEL, PETROLEUM ENGINEER
FRED FORSTER, JR., ENGINEER

1128 VAUGHN BUILDING - 915 - MU 4-7121
MIDLAND, TEXAS 79701

September 27, 1968

File Case 3633

Oil Conservation Committee
Box 2088
Santa Fe, New Mexico 87501

Re: Order # R-3307
E. B. Anderson No. 1 Well
Lea County, New Mexico

Attention: A. L. Porter, Jr.

Enclosed you will find a finalized schedule of actual well costs for the subject well. Please use this report as your final, since some costs previously reported to you have been deleted and some have been added due to corrections and late charges which have been received.

We hope this information will be sufficient, but should some question arise please contact us.

Yours very truly,

MAJOR, GIEBEL & FORSTER

Bobby Page

Bobby Page
Accountant

cc: Ashmun & Hilliard
418 Bank of the Southwest Building
Midland, Texas 79701

Attention: Steve Koch

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MAJOR, GIEBEL & FORSTER
E. B. ANDERSON NO. 1, LEA COUNTY, NEW MEXICO
FINAL REPORT - TOTAL COST
-ALL INCLUSIVE-

<u>DESCRIPTION</u>		<u>TOTAL</u>
<u>LEGAL, SURVEY & LOCATION</u>		\$ 3,444.63
Kellahin Fox - Legal Service	192.65	
Merle Shows - Survey Location	50.00	
New Mex Construction - Build Road & Location	2,501.98	
E. M. Anderson - Location Damages	500.00	
Mrs. E. B. Anderson - Location Damages	<u>200.00</u>	
<u>SURFACE CASING</u>		2,677.01
Fort Worth Pipe & Supply - 12 3/4" Casing	\$1,593.67	
Halliburton - Cementing Surface Casing	<u>1,083.34</u>	
<u>INTERMEDIATE CASING</u>		16,743.49
Fort Worth Pipe & Supply - 8 5/8" Casing	\$14,872.98	
Halliburton - Cementing Intermediate Casing	<u>1,870.51</u>	
<u>WELL & CASING HEAD</u>		1,435.07
Fort Worth Pipe & Supply - Well Head	\$ 124.30	
Fort Worth Pipe & Supply - Casing Head	<u>1,310.77</u>	
<u>TESTING & LOGGING</u>		5,865.85
Arrow Testers, Inc. - DST	\$2,466.85	
Foster Testers, Inc. - DST	732.33	
Pan Geo Atlas Corp. - Logging	<u>2,666.67</u>	
<u>MUD & CHEMICALS</u> - Midland Mud & Chemical		7,626.66
<u>CONTRACT DRILLING</u> - M - G - F Drilling Co., Inc.		102,468.83
<u>OTHER</u>		1,290.99
Lone Star Welders - Cut off Surface Casing	\$ 41.20	
O-K Welding - Cut off Intermediate Casing	78.28	
Oil Field Rental - Rental	79.53	
Permian Corporation - Crude Oil	990.00	
Western Oil Transportation - Hauling Load Oil	<u>101.98</u>	
<u>PRODUCTION CASING</u>		37,752.68
Fort Worth Pipe & Supply - 5 1/2" Casing	\$34,754.01	
O-K Welding - Cut off 5 1/2" Casing	28.84	
Halliburton - Cementing 5 1/2" Casing	<u>2,969.83</u>	
<u>TUBING</u> - Fort Worth Pipe & Supply		10,874.06
<u>FLOW LINES & MISC. LINE PIPE</u>		720.45
Gainer Field Service	\$ 494.41	
Fort Worth Pipe & Supply	<u>226.04</u>	

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E. B. ANDERSON NO. 1 (CONT'D)

<u>DESCRIPTION</u>		<u>TOTAL</u>
<u>TANKS AND HEATER TREATER</u>		7,574.31
Fort Worth Pipe & Supply - Block for Heater Treater	\$ 44.88	
Fort Worth Pipe & Supply - Heater Treater	1,699.50	
Fort Worth Pipe & Supply - 2 500 Bbl. Tanks	2,523.50	
Fort Worth Pipe & Supply - Install Heater Treater	142.25	
Gainer Field Service - Labor on Heater Treater	1,228.53	
Gandy Pump Service - Labor on Tanks	64.89	
O-K Welding - Welding on Tanks	132.25	
Mapp Tank Co. - Install tanks	451.01	
MTL. Transfer - Tank	<u>1,287.50</u>	
<u>VALVES, PLUGS AND UNIONS</u>		3,924.41
Cen-Tex Inc.	\$2,843.18	
Cicero Smith Lumber Company	74.99	
Fort Worth Pipe & Supply	<u>1,006.24</u>	
<u>ACIDIZING - Western Company</u>		484.40
<u>COLLARS & GUIDE SHOES</u>		599.51
Halliburton Company	\$ 591.27	
O-K Welding	<u>8.24</u>	
<u>RENTAL TOOLS & UNITS</u>		973.09
Pool Co. - D. D. Unit w/crew	\$ 415.09	
Rental Pipe & Supply - Power Tubing Tong	226.60	
Fannie Lee Mitchell	168.41	
New Mex Construction	<u>162.99</u>	
<u>MISCELLANEOUS</u>		1,265.57
Gainer Field Service - Roustabout	\$ 669.76	
New Mex Construction Co. - Make Clean up Complete	<u>595.81</u>	
TOTAL COST		\$205,721.01

60 SEP 30 1961

MAJOR, GIEBEL & FORSTER

R. O. MAJOR, GEOLOGIST
A. F. GIEBEL, PETROLEUM ENGINEER
FRED FORSTER, JR., ENGINEER

1128 VAUGHN BUILDING - 915 - MU 4-7121
MIDLAND, TEXAS 79701

May 1, 1968

File Card 3633

Oil Conservation Committee
Box 2088
Santa Fe, New Mexico

Re: Order No. R-3307
E. B. Anderson No. 1 Well
Lea County, New Mexico

Attn: A. L. Porter, Jr.

Enclosed you will find a supplemental schedule of actual well costs for the subject Well. This schedule covers only charges incurred since our first reporting to you.

These costs are still not final and are subject to additional billings which we may not have received at this time.

Another supplemental report will be filed shortly which should complete the actual costs for this Well.

Thank you for your co-operation.

Yours very truly,

MAJOR, GIEBEL & FORSTER

Bobby Page

Bobby Page
Accountant

BP:nr

Encl.

MAIN OFFICE 5110

'68 MAY 2 PM 1 07

MAJOR, GIEBEL & FORSTER
E. B. Anderson No. 1 Well
Lea County, New Mexico

COSTS PREVIOUSLY REPORTED \$ 188,446.06

SUPPLEMENTAL COSTS:

V-F PETROLEUM - LEASE PURCHASE

5,256.51

MUD COSTS

7,626.66

Midland Mud & Chemical

TESTING

2,666.67

Pan Geo Atlas Corp. (Logging)

FLOW LINES & MISC. LINE PIPE

23.18

TANKS & HEATER TREATER

1,287.50

Material Transfer

MISC. VALVES, PLUGS, UNIONS, ETC.

128.28

Cen-Tex, Inc.

\$41.25

Fort Worth Pipe & Supply

87.03

CEMENTING

2,969.83

Halliburton Company

COLLARS & GUIDE SHOES

599.51

Halliburton Company

591.27

O. K. Welding

8.24

RENTAL, TOOLS & UNITS

331.40

Fannie Lee Mitchell, Inc.

168.41

New-Mex Construction Co., Inc.

162.99

MISCELLANEOUS

15,502.13

Gainer Field Service-Hook up Flow Lines

502.13

V-F Petroleum-Lease Purchase-Conditional

15,000.00

TOTAL COST TO DATE

\$224,837.73

* The above costs are not complete. Another supplemental report will be issued to finalize the costs.

MAIN OFFICE

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MAJOR, GIEBEL & FORSTER

R. O. MAJOR, GEOLOGIST
A. F. GIEBEL, PETROLEUM ENGINEER
FRED FORSTER, JR., ENGINEER

1126 VAUGHN BUILDING - 815 - MU 4-7121
MIDLAND, TEXAS 79701

March 14, 1968

Oil Conservation Committee
Box 2088
Santa Fe, New Mexico

Re: Order No. R-3307

Attn: A. L. Porter, Jr.

Enclosed you will find the itemized schedule of actual well cost for the E. B. Anderson No. 1 Well, Lea County, New Mexico. This meets the requirements of the subject order number, Paragraph 5, with the exception that the costs are not complete.

A supplemental tabulation of costs will be filed within each 30 day period hereafter until all costs are complete.

Thanking you we remain,

Yours very truly,

MAJOR, GIEBEL & FORSTER

Bobby Page
Bobby Page,
Accountant

BP:jar

*File Case
3633*

MAIN OFFICE 000

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MAJOR, GIBBEL & FORSTER
E. D. Anderson No. 1
Lea County, New Mexico

<u>LEGAL, SURVEY & LOCATION</u>		\$ 3,897.51
Stubbeman, McRae, Sealy & Laughlin (Title & Opinion)	\$ 802.53	
County Clerk, Lea County, N.M. (Filing Fees)	43.00	
Merle Shows (Survey Location)	50.00	
New-Mex Const. Co., Inc. (Build Location & Road)	2,501.98	
E. M. Anderson (Location Damages)	<u>500.00</u>	
<u>SURFACE CASING</u>		2,677.01
Fort Worth Pipe & Supply (413' of 12-3/4" csg)	\$1,593.67	
Halliburton (Cementing Surface Csg)	<u>1,083.34</u>	
<u>INTERMEDIATE CASING</u>		16,502.25
Fort Worth Pipe & Supply (4558' of 8-5/8" csg)	\$14,872.98	
Halliburton (Cementing - Intermediate csg)	<u>1,629.27</u>	
<u>WELL & CASING HEAD</u>		1,435.07
Fort Worth Pipe & Supply (Well Head)	\$ 124.30	
Fort Worth Pipe & Supply (Csg. Head)	<u>1,310.77</u>	
<u>TESTS</u>		3,199.18
Arrow Testers Inc.	\$2,466.85	
Foster Testers, Inc.	<u>732.33</u>	
<u>DRILLING COSTS</u>		102,468.83
M-G-F Drilling Co., Inc.		
<u>OTHER</u>		1,211.46
Lone Star Welders (Cut-off Surface csg)	\$ 41.20	
O. K. Welding (Cut-off Intermediate csg)	78.28	
Permian Corp. (Crude Oil)	990.00	
Western Oil Transportation Co., Inc. (Load Oil)	<u>101.98</u>	
<u>5 1/2" CASING</u>		34,782.85
Fort Worth Pipe & Supply (12,374')	\$34,754.01	
O. K. Welding - Cut off 5 1/2" Csg.	<u>28.84</u>	
<u>TUBING</u>		10,874.06
Fort Worth Pipe & Supply (12,306')		
<u>FLOW LINES & MISC. LINE PIPE</u>		697.27
Gainer Field Service	\$471.23	
Fort Worth Pipe & Supply	<u>226.04</u>	
<u>TANKS & HEATER TREATER</u>		5,647.57
Fort Worth Pipe & Supply - Block for Treater	\$ 44.88	
Fort Worth Pipe & Supply - Heater Treater	1,699.50	
Fort Worth Pipe & Supply - 2 - 500 bbl Tanks	2,523.50	
Fort Worth Pipe & Supply - Set up Heater Treater	142.25	
Gainer Field Service - Labor on Heater Treater	1,040.30	
Gandy Pump Service - Labor on Tanks	64.89	
O. K. Welding - Welding on Tanks	<u>132.25</u>	
<u>MISC. VALVES, PLUGS, UNIONS, ETC.</u>		3,490.86
Cen-Tex Inc.	\$2,496.66	
Cicero Smith	74.99	
Fort Worth Pipe & Supply	919.21	
<u>ACIDIZING</u>		476.75
Western Co. (1,000 Gallons)		
<u>RENTAL TOOLS & UNITS</u>		641.69
Pool Co. - Double Drum Derrick Unit	\$415.09	
Rental Pipe & Supply - Power Tubing Tong Outfit	<u>226.60</u>	
<u>MISCELLANEOUS</u>		443.70
Black, Sivals & Bryson - Service Heater Treater	\$276.07	
Gainer Field Service - Clean Up Around Battery	<u>167.63</u>	
TOTAL COST*		\$188,446.06

*The above costs are not complete. Supplemental reports will be submitted when additional costs are incurred until all costs are complete.

OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

March 11, 1968

C Major, Giebel & Forster
1126 Vaughn Building
Midland, Texas 79701

Re: Order No. R-3307

O Gentlemen:

P Reference is made to your letter of March 8, 1968, requesting an extension of time in which to file the compilation of actual well costs for the well recently completed on lands pooled by the Commission by Order No. R-3307.

P We do not have authority to extend this filing time administratively. However we do know that in many cases complete costs are not available from actual invoices in time to meet the 30-day deadline.

Y We suggest that you file a compilation of the costs that you do have invoices for within the allotted 30-day period, sending a copy to the Commission and each known working interest owner pursuant to the requirements of Paragraph 5 of the order, making it clear that the costs are incomplete and that a supplemental tabulation of costs will be filed within 30 days. This procedure may then be repeated if necessary.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/ir

cc: Case File No. 3633

MAJOR, GIEBEL & FORSTER

R. O. MAJOR, GEOLOGIST
A. F. GIEBEL, PETROLEUM ENGINEER
FRED FORSTER, JR., ENGINEER

1128 VAUGHN BUILDING - 915 • MU 4-7121
MIDLAND, TEXAS 79701

March 8, 1968

The Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Re: Application of V. F. Vasicek and J. M. Fullinwider,
dba V-F Petroleum for Compulsory Pool in Lea County, New Mexico
Case No. 3633, Order No. R3307

Gentlemen:

In response to the above captioned order, Paragraph 5 requires that we furnish the actual well cost within thirty days following the completion of the well. Inasmuch as all costs relating to the drilling and completion of this well which would be considered actual well cost have not been received by the operators, we request that we be granted additional time in order to complete the compilation of these costs from invoices. We would appreciate an extension of the time in which to comply with this order to no later than April 1, 1968. This will allow us to be accurate in compiling these costs and relieve us of having to make subsequent corrections for invoices that may be slow in being received by ourselves.

We would appreciate your consideration of this request and will comply according to your decision.

Yours very truly,

MAJOR, GIEBEL & FORSTER
as Operators


R. O. Major

MAIN OFFICE

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bl

V. F. PETROLEUM
VAUGHN BUILDING MUTUAL 3-3344
MIDLAND, TEXAS
September 29, 1967

V. F. VASICEK

J. M. FULLINWIDER

*File
3633*

New Mexico Oil Conservation Commission
Santa Fe, New Mexico 87501

Force Pooling Order
#R-3307 - Lea County,
New Mexico.

Gentlemen:

Enclosed please find duplicate copies of letter received from
Ashmun & Hilliard pertaining to the above caption.

Very truly yours,

V-F PETROLEUM

J. M. Fullinwider
J. M. Fullinwider

JMF:bjs

Enclosure

MAIN OFFICE

'67 OCT 2 AM 8 56

J. B. ASHMUN
H. T. HILLIARD

ASHMUN & HILLIARD
710 VAUGHN BUILDING
MIDLAND, TEXAS 79701

PHONE MU 4-8271

September 26, 1967

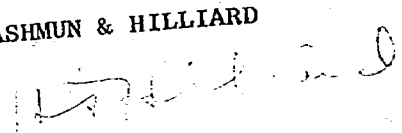
V - F Petroleum
Vaughn Building
Midland, Texas 79701

Gentlemen:

Thank you for your letter of September 22. Please be advised that Ashmun & Hilliard will not join the drilling of the oil well in the NW/4 SW/4, Section 6, Township 13-South, Range-38-East, Lea County, New Mexico.

Cordially yours,

ASHMUN & HILLIARD


H. T. Hilliard

/jb

MAIL OFFICE

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GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

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

September 11, 1967

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 3633
Order No. R-3307
Applicant:
V. F. VASICEK &
J. M. FULLINWIDER

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.
A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other Mr. R. S. Morris - Mr. H. T. Hilliard

V. F. PETROLEUM
VAUGHN BUILDING MUTUAL 3-3344
September 22, 1967

J. M. FULLINWIDER

V. F. VASICEK

Ashman & Hilliard
Suite 1120 - Mills Tower
220 Bush Street
San Francisco, California 98184

Attention: Mr. H. T. Hilliard

West Bronco Area
Lea County, N.M.

Gentlemen:

We assume you have been notified by the New Mexico Oil Conservation Commission that under Order #R-3307 your 3/16 W.I. underlying the NW/4 SW/4 Section 6, Township 13-South, Range-38-East, Lea County, New Mexico, has been forced pooled. V-F Petroleum has been named as Operator of the well and under the said order all W.I. owners have the right to participate in the drilling of said well by paying their pro-rata share of the estimated cost thereof.

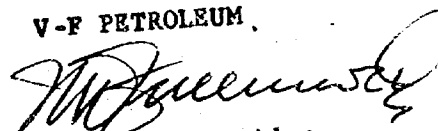
Enclosed you will find two copies of cost sheet setting forth the estimated cost to drill and complete our #1 E. B. Anderson. In the event you choose to join in the drilling of this well you should forward to us your share, 3/16, of the estimated cost of this well; we compute this amount to be \$42,757.12.

If you do not wish to join in the drilling of this well, we earnestly request that you notify us of this decision by return mail so we may commence operations for drilling.

If we may provide additional information, please notify.

Very truly yours,

V-F PETROLEUM.


J. M. Fullinwider

JMF:bjs

Enclosures

cc: New Mexico Oil Conservation Commission
Santa Fe, New Mexico

COST SHEET

ESTIMATED COST TO DRILL AND COMPLETE E. B. Anderson No. 1, West Bronco,
Lea County, New Mexico (including pump installation)

Intangible Expenses

Stake and prepare location, roads, damages	\$ 3,000	*
Mud and chemicals + 11¢ tax	10,000	*
Drill contract: 12,300' @ \$ 7.25 /ft	90,528	*
Day work: 6 days @ \$ 1200 /day	7,200	*
Electric log LS, GR, Sonic, MLL, LL	4,300	*
Perforate	750	
Cementing casing 400 surface, 1000 intermediate, 500 long csg.	5,900	*
Acid or frac 1000 acid	750	
Unit time for completion	3,000	
Drill stem tests 2 wfc, 1 dev.	2,100	*
Geological and engineering consulting		*
Coring _____' @ _____ \$/ft; analyze _____' @ _____ \$/ft		*
Misc. equipment rental		*
Allowance for contingencies (5 %)	6,500	*
Sub-total	\$134,028	(_____ %)

Capital Items (Tangible Expenses)

Casing and tubing:		
400' of 12 3/4" @ \$ _____/ft	\$ 1,560	*
4600' of 8 5/8" @ \$ _____/ft	15,500	*
12,300' of 5 1/2" @ \$ _____/ft	34,800	
12,300' of 2 3/8" @ \$ _____/ft	10,900	
_____ ' of _____ " @ \$ _____/ft Packer & hold down	750	
Christmas tree and flowlines	3,500	
Pump unit, motor, base, rods, subsurface pump, including labor (Reda Pump complete, when needed)	13,500	
Tank batteries, w/separators, heatertreater, incl. labor (including salt water disposal down intermediate csg)	13,000	
Lease bonus to _____		*
Lease acquisition cost		*
Legal fees	500	
Sub - total	\$ 94,010	(_____ %)
Grand total	\$228,038	(100%)

* Total of items marked (*) is \$ 146,588 in event of a dry hole.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMAS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
August 9, 1967

EXAMINER HEARING

IN THE MATTER OF:
Application of V. F. Vasicek and J. M.
Fullinwider, dba V-F Petroleum for
compulsory pooling, Lea County, New
Mexico.

Case No. 3633

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: The hearing will come to order.

The next case is Case 3633.

MR. HATCH: Case 3633, application of V. F. Vasicek and J. M. Fullinwider, doing business as V. F. Petroleum for compulsory pooling, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin, Kellahin and Fox, appearing for the Applicant. We have three witnesses I would like to have sworn, please.

MR. NUTTER: We might ask at this time if there are other appearances in this case.

MR. MORRIS: Mr. Examiner, I am Dick Morris of Montgomery Federici and Andrews, Santa Fe, New Mexico, appearing for Ashmun and Hilliard.

MR. NUTTER: Thank you, Mr. Morris. We might point out at this time that although the advertisement of this case is correct, and the description was given as being the northwest-southwest of Section 6, Township 13 South, Range 38 East, there is an error on the docket. We were concerned that Ashmun and Hilliard may not have been aware of the case being on the docket because of the error on the docket, but - -

MR. MORRIS: No objections offered as to the error on the docket.

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-4691 • ALBUQUERQUE, NEW MEXICO 87101

1400 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO 87108

MR. NUTTER: We will stick with the case, then.
You are aware of the case being called?

MR. MORRIS: Yes, sir.

(Witnesses sworn)

MR. KELLAHIN: I would like to call as our first witness, Mr. Jerry Fullinwider.

JERRY M. FULLINWIDER, called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Jerome M. Fullinwider.

Q Now, what business are you engaged in, Mr. Fullinwider?

A I am a partner in V-F Petroleum, which is an independent firm located in Midland, Texas, engaging in exploration, drilling and production of crude oil and natural gas.

Q How long has V and F Petroleum been engaged in the oil business?

A About three and a half years.

Q What has been your background and experience in the oil business, Mr. Fullinwider?

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87101
1400 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO 87108

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87101
1400 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO 87108

A I graduated from Southern Methodist University in 1951, Business and Law. Was employed by Sohio Petroleum Company. I was with them in various capacities for six years in numerous states, including Canada, including the position of Land Administrative Assistant to the Manager of Exploration, foreign and domestic.

At that time, I went with an independent concern, headquartered at Dallas, Texas, A.W. Cherry and Cherry Brothers, as their Manager of Land and Exploration. I was with them for eight years, at which time, I moved to Midland and formed the present partnership, V-F Petroleum. This totals seventeen years of experience in Land and Exploration, and related activities.

Q In connection with your work in Land and Exploration, did you acquire leases and put together drilling deals in New Mexico?

A Yes, sir.

Q And you have had experience in this field?

A Yes, sir.

Q And you are a partner in the V-F Petroleum, the Applicant in this case?

A Yes, sir.

Q And you have an interest in the area involved in

this application, is this correct?

A Yes, sir, I do.

(Whereupon Applicant's Exhibit Number 1 was marked for identification.)

Q Briefly, would you outline just what occurred in connection with this application, Mr. Fullinwider?

A Yes, sir. I would like to offer a location plat as Exhibit 1, for reference material, so interested parties can have before them the location and land in question. You will note that V-F Petroleum has oil and gas leases under the southwest quarter of Section 6, shown thereon. Our longest term lease expiring in May of 1972, and shown thereon is a proposed location for a 12,300 foot Devonian test well located on a forty acre proration unit, described as the northwest quarter of the southwest quarter of said Section 6. I would like to offer this as Exhibit 1.

Q The forty acres outlined with a dashed line, that is the area you are seeking to force pool in this application?

A Yes, sir, it is.

Q Now, that is the surface area. What particular formations are you seeking to force pool in this application?

A We wish to force pool all formations while it is primarily a Devonian test, at the same time, there are numerous other possible pay horizons up the hole, and so we wish all of them force pooled.

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Q In other words, you are seeking to force pool all mineral interests in connection with this particular acreage, is this correct?

A Yes, sir.

(Whereupon Applicant's Exhibits 2 through 8 were marked for identification.)

Q Now, referring to what has been marked as Exhibit Number 2, would you identify that exhibit, please?

A Exhibit Number 2 is a mineral take off of the mineral ownership under the land in question, both the forty acre tract on which we are requesting force pooling, and the entire southwest quarter of Section 6.

You will note that numerous mineral owners are listed with their addresses and the interest that they own, on this exhibit. All of the interests shown on the exhibit are under lease to V-F Petroleum, with the exception of the last interest listed, Mrs. Opal Effie Fulton and her husband. They own a three-sixteenths interest and it is under lease to Ashmun and Hilliard.

At the time we started leasing this land, we were aware that Ashmun and Hilliard had, at one time, had the entire Section 6 under lease and drilled some wells thereon and subsequently dropped all of their leases, excepting eighty

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acres surrounding their one productive well. This includes the southwest quarter of Section 6; they had it all leased at one time and they dropped it over a year and a half ago. So, we proceeded to lease these interests and when we were about one third of the way through, we ran across Ashmun's and Hilliard's leasing activity, particularly on the interest of Opal Effie Fulton. That surprised us, since they had once had it under lease and had dropped it, but we assumed maybe they just wanted an interest in the play and, so, we stepped up our leasing to see if we could get it all. We thought we had opposition at the time. As it turns out, that is the only interest that they did pick up. They did not even approach any of the other interests and we ended up owning all of the rest of the interest. We paid good bonus money, up to thirty dollars an acre and excess royalty for some of the interest, and some of them, they are owned by mineral pros. Some of these names I am sure you gentlemen will recognize as being professional mineral buyers, and they wouldn't sell us leases, but they would give us short-term leases free with excess royalty on the hopes of getting a well drilled since they were familiar with the situation in the area.

Q Now, you say you got some short-term leases, what

is the exploration date on those?

A The shortest term lease we have, expires, if we do not commence drilling thereon before, on December 7th, 1967.

Q So you have to start a well prior to that, or you will lose the shortest term lease, is this correct?

A That is correct.

MR. NUTTER: What was that date again?

THE WITNESS: December 7, 1967.

MR. PORTER: What month?

THE WITNESS: December 7, 1967.

Q (By Mr. Kellahin) Now, having encountered this Opal Effie Fulton lease, which, you say, is held by Ashmun and Hilliard, what effort did you then make to make some kind of an arrangement with Ashmun and Hilliard?

A Well, sir, as I mentioned at first, we didn't know what their entrance into the play meant. We were surprised by it because they had once had it leased and had dropped it, and we just assumed they would probably go along with us, so we didn't know what to expect. But, after we completed the leasing, we contacted Mr. Hilliard in California, he has moved there a month or so ago, and discussed this situation with him and he was extremely

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conversant with it, immediately responsive to our telephone call, and we asked him if he would join us in the drilling of the well, or if he would otherwise sell his lease to us, or farm out his lease to us, or what were his intentions.

Mr. Hilliard and I are acquaintances and we speak frankly to one another, and incidently, I would like to say that Mr. Vasicek, my partner, and Mr. Pennel, also our partner on this deal, all three of us were on the telephone at the same time with Mr. Hilliard, which he knew, so this is not a one-sided explanation of the telephone call.

Mr. Hilliard indicated, that as a rule, Ashmun-Hilliard liked to be constructive, but in this particular instance, they were going to be destructive, that they would not join in the drilling of the well, they would not farm out to us, they would not sell us the lease or in any way participate. They did not want the well drilled and would do what they could to keep it from being drilled, because they felt like the oil would possibly be recovered from the one well they had in there and there was always some possibility that a new location would not be successful, and they didn't want to risk their money to drill it.

MR. PORTER: In other words, you could put them down as doubtful?

THE WITNESS: Yes, sir.

Q (By Mr. Kellahin) Now, did you follow up this conversation with a letter directed to Mr. Ashmun?

A I wrote to Mr. Hilliard and Mr. Ashmun lives in Western Canada and Mr. Hilliard has been in charge of their southwestern operations since Mr. Ashmun moved, but since Mr. Hilliard moved to California to promote a professional socker team, we thought the best thing to do was to get in touch with him personally on the matter. We did --

Q Before we get to that, does Ashmun and Hilliard have an office in Midland?

A Yes, sir, they do.

Q And your offices are also in Midland?

A Yes, sir.

Q Did you contact their office in Midland?

A No, sir, we didn't, for the fact, that their office in Midland is more or less a caretaking situation. They have turned over their operations to a professional operating firm, that is doing it on a contract basis, and we knew they would have no say so as to the participation of the drilling of a well, so we went straight to Mr. Hilliard, who does have a say so.

Q Now, referring to what has been marked as Exhibit

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Number 3, would you identify that exhibit?

A Exhibit Number 3 is a letter dated July 18, '67, which we wrote to Mr. Hilliard in San Francisco confirming our telephone conversation of July 7, and telling him what we planned to do, that we had these leases under lease, we wanted to drill this well. We told him the proposed location of the well and the cost of the well, both the cost of drilling and also the cost of completion.

We offered him three propositions in the letter. One, that he join the drilling of the well, paying his prorata share of the cost thereof and we would enter into a standard operating agreement, which would name us as operator and would provide a hundred dollars a month, per well for combined fixed rate for overhead expense.

And then, we also mentioned to Mr. Hilliard on the telephone, that if they wanted to operate, we didn't care. We weren't particularly choosy about that because we had three-sixteenths and they had -- we had thirteen-sixteenths and they had three-sixteenths. It was logical that we would be operator, but if that was the only thing standing in the way, we would be very happy for them to operate the well.

The second proposal was that they farm out the lease to us, let us drill it at our own cost, risk and expense

and they retain a three-sixteenth of eight-eighths overriding royalty interest.

And our third proposal was that, if they would sell their lease to us, we would give them their money back, plus a thirty-second override and guarantee to drill the well at our free cost, risk and expense.

We furthermore said, that if he had any ideas as to his participation, differing from those we offered, we would just be delighted to discuss them with him. We sent this registered mail, and you will note on the skirt of the letter, we have the returned receipt from the Post Office Department, so we know it was received by them, and we have never had a reply from them.

Q Now, in connection with that letter, was the well location correctly stated?

A Well, it was a location that we had chosen at the outset, however, after discussing this matter with our attorneys, as it appeared we were going to have to follow some legal procedures to, and join them to either get with us or do something else, we discovered that the location we had chosen was not in keeping with the regulations of the Oil and Gas Commission of New Mexico, so we changed the location slightly and wrote him another letter of July 21.

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Q That is Exhibit Number 4, is that correct?

A Yes, sir, in which we pointed out this change to him and also requested once again that he give this his earnest consideration and let us hear from him, and we have not received a reply from that letter.

Q You have never received anything but an indication from Mr. Hilliard that they will not participate in a well and do not want you to drill a well, is this a correct statement?

A That is correct.

Q And that is based primarily on your telephone conversation?

A Primarily on our telephone conversation, however we have subsequently had discussions with Mr. Hilliard's staff in Midland, as we have seen them on the streets and in meetings and whatnot, and they have indicated they were quite aware of what we were up to and more or less just said that was it, in other words, "We know what you are doing and lots of luck", that sort of thing, so obviously they don't intend to do anything about it.

Q Now, does V-F Petroleum desire to drill on this unit, forty acre tract?

A Yes, sir, we would like to very much.

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Q And are you able to drill without force pooling the three-sixteenths interest?

A No, sir, there is no way that we could drill without the force pooling. There is some question, if we could justify the drilling of the well even with force pooling, because as I understand the statutes of the state, there are set certain percentages for recoveries, and given the risk involved on this location and given the expense of the well, it is a very expensive well, and given the economics of the area, it may be difficult to drill at all because of having to carry Mr. Hilliard's interest.

Q Now, there will be additional testimony of course on the expense of the well and the risks involved in drilling it, will there not, by other witnesses?

A Right.

Q Now, Exhibit Number 1 is a location plat and showing the area under lease on the location, your proposed location, was that prepared by you under your supervision?

A Yes, sir.

Q And Exhibit Number 2, was that prepared by you or under your supervision?

A Yes, sir.

Q And Exhibits 3 and 4 are copies of letters from

your files, kept in the ordinary course of business, is this correct?

A Yes, sir.

MR. KELLAHIN: At this time, I would like to offer in evidence, Exhibits 1 through 4 inclusive.

MR. NUTTER: Applicant's Exhibits 1 through 4 will be admitted in evidence.

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

MR. KELLAHIN: That's all I have on Direct Examination.

MR. NUTTER: Are there any questions of Mr. Fullinwider?

THE WITNESS: Sir, may I make a--

MR. NUTTER: Yes, sir, go ahead.

THE WITNESS: -- slight addition so the questions may refer to it also if they wish? Many of our royalty owners, as shown by this mineral take-off, are professional mineral buyers and they are quite anxious to see this well drilled and we have received both written and telephone communication from them, wanting to know why aren't we drilling yet and when are we going to drill? We do have some long-term leases as I have mentioned, but it is not our business

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to try to sit and wait while oil is being drained, and we need to drill. We feel an obligation to our lessors, and that is why we are proceeding with this hearing.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Fullinwider, I note in the numbered Paragraph 1 of your letter of July 18th, that you mentioned that the agreement would name V-F Petroleum as operator and the accounting schedule would provide for a combined fixed rate for overhead expense of one hundred dollars per month, per well to the depth of twelve-five?

A Yes, sir.

Q Now, what do you propose as the operating cost? You realize that the statutes provide that the Commission shall set an operating cost for operating the well?

A Yes.

Q Do you have any testimony or will one of your other partners have testimony relating to operating cost?

MR. KELLAHIN: We have another witness on that, however, I am sure Mr. --

A I don't believe that the witness has to do with operating cost per se. Now, you are not speaking of drilling and completion costs?

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Q No, but the statutes --

A Yes, sir.

Q -- provide that there will be set an operating cost.

A Well, our understanding of operating costs, that they would -- operating costs of any producing property, would be made up of, first of all, any third party services that are contracted on that particular producing lease, such as a Slumber Jay, or a well workover unit, or acidizing job, or reperforating, or whatever. Third party charges, naturally, are charged to the entire lease.

Secondly, there would be a charge for the supervision and overhead of the well that the operator recoups part of his overhead for operating this well. And we assume that a hundred dollars per month would not be at all an excessive request for this S and O charge as it is called in the industry, which, on the accounting exhibit, is called a combined fixed rate for overhead expense.

Q Now, will this include actual operating costs of the well, however, or is this only overhead expense? Maybe I don't follow what you mean by "Overhead Expense."

A Well, sir, I imagine, from your question, that this is what we would consider, that you are calling the operating

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costs of the well.

MR. PORTER: Cost of the pumper's salary and so forth?

THE WITNESS: Well, we consider a pumper's salary like a third party charge that everybody bears. It is nothing that comes into the operator one way or another. It goes to the pumper. So, we don't anticipate making any other operating charges.

Q (By Mr. Nutter) Well, as operators of the well, you would be advancing these costs for the pumper's salary --

A Yes.

Q -- for example?

A Yes, sir.

Q And you would recoup Ashmun and Hilliard's share of those pumping costs out of production?

A Yes, sir.

Q And that would be included in this one hundred dollars?

A No, sir. I see what you are getting at. If you want to take the pumping cost, the cost of a pumper of a well and set that out as part of the operating costs, separate from these other charges, well, then, yes, that of course must be included. As I mentioned, we would consider it in

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the same category as the third party charge. You have numerous expenses on producing property, pumper being just one of them, and, but that definitely would be one, and I should say, a pumper for a well here -- we don't have other wells in the areas, we certainly could get one I imagine for a hundred dollars a month, wouldn't you imagine Vic, maybe for even --

Q You would have a contract pumper to take care --

A Contract pumper, that is correct.

Q -- of the pump?

A Which, as I say, we consider a third party charge, just like if you hired Slumber Jay to come out and do something to the well.

Q What would you estimate would be your normal operating costs, including overhead and actual field costs? Now, I don't intend to include workovers or anything like that, they wouldn't be normal operating costs, but normal operating costs would be approximately what?

A I would say, for a well to this depth, three hundred dollars a month should amply take care of it, including the pumper, including the supervision and overhead, everything that had -- the buying of gauge books, all of the little incidentals that are monthly recurrals, recurring

items and not an extraneous item such as a workover rig or something like that. For the one well.

MR. VASICEK: For a flowing well.

THE WITNESS: Oh, excuse me, a flowing well. If we had a pumping well, of course, we would have an additional charge of electricity and also charges for grease and things like this, which would increase, perhaps, above the three hundred dollars. We hope we would not get a pumping well here, but it is always a possibility. So the three hundred dollars would certainly include normal recurring monthly expenses on a flowing well.

Q I see.

A If it was a pumping well, it would be hard to say, I would say four hundred, four hundred and fifty should amply include it.

MR. NUTTER: Are there any other questions of Mr. Fullinwider? Mr. Morris?

CROSS EXAMINATION

BY MR. MORRIS:

Q Mr. Fullinwider, along the same line of inquiry as Mr. Nutter, of your total operating expenses, how much

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of that figure that you mentioned the three hundred dollars, would be attributable to the costs of supervision?

A Well, as I mentioned in the letter to Mr. Hilliard, we think a hundred dollars per month is ample reimbursement for supervision and overhead of a well of this depth. We know some companies get a hundred fifty, even two hundred, but our schedule calls for a hundred dollars per month, so that is the figure.

MR. MORRIS: Thank you.

MR. NUTTER: If there are no other questions, the witness may be excused.

(Witness excused.)

MR. KELLAHIN: I would like to call Mr. Vasicek. VICTOR F. VASICEK, called as a witness, having been previously duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

MR. KELLAHIN:

Q Would you state your name, please?

A Victor F. Vasicek.

Q Are you a partner in V-F Petroleum, Mr. Vasicek?

A Yes, I am.

Q Are you a petroleum engineer?

A I am a registered petroleum engineer in the State

of Texas.

Q Have you ever testified before the Oil Conservation Commission of New Mexico and made your qualifications a matter of record?

A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

(Whereupon, Applicant's Exhibits 5 through 68 were marked for identification)

Q (By Mr. Kellahin) Mr. Vasicek, in connection with the application of V-F Petroleum in the case before the Commission at this time, have you made any investigation of the area involved as to productivity and the possibility of completing a producing well?

A Yes, sir, I have. To begin with, Exhibit 5 will show you -- if you will please refer to Exhibit 5. This gives a monthly production from the Ashmun and Hilliard Number 1 Maxwell, from the date of the inception, which was in September, 1965 through May of 1967.

Q Now, is that well located near the proposed location of V-F Petroleum?

A Yes, sir, it is located approximately 1400 feet

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northeast of the proposed location, V-F Petroleum's proposed location.

Q Is that the only producing well in the Bronco West Field?

A That is the only production, yes, sir, it is, in the Devonian horizon. There was a plugged-out Pennsylvanian well, or Wolfcamp well to the southeast.

Q But that is the only Devonian production?

A That is the only Devonian producer.

Q Would you continue your discussion of Exhibit Number 5, please, sir?

A This well, up to this date, to update the April -- the June and July and August figure, this well has produced a cumulative amount of about 135,000 barrels of oil, but it is shown as 121 on this exhibit, 121,000.

During this time, this -- the performance of this well has been very good, although it does not show making its allowable. They intentionally, from what I can -- from talk from the field or pumper and the people in the area, they intentionally held it down to approximately 6,000 barrels per month. I don't know why they did, but they possibly thought they might have been near water or something like that, they didn't want to cone, cone water into the -- that

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would in some way injure the well. The 6,000 barrel figure obviously was chose as probably the most efficient rate of production for stabilized flow. I am just -- this is just my guess from what I can tell of it.

I did make an inspection of the field and went over it with the farmer, we went out there and just looked the place over. And obviously it does not make any water, they never have reported any water, and from the inspection of the field, I could tell it did not make any water. They sell gas off of this lease and the exhibit also shows the amount of gas that this well has produced, somewhere -- the monthly gas production should be "MCF". We did not specify whether it was cubic feet or what, but it is "MCF" and it has made approximately 400,453 "MCF" cumulative gas production.

This is a gas-oil ratio of approximately 4 -- average GOR of about 400 to 1, and from the evidence we have here, it appears that there has been no increase or decrease in GOR, and as I said before, it still does not make any water, so the well has performed very well.

Q Is that well being pumped or is it natural flow?

A It is a flowing well, and although there were no pressures, no bottom hole pressures available. I looked all over on, in all the records of the Commission's and I

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never did see any bottom hole pressures. And they did drillstem test this well upon completion, however, the tool failed and they did not get a bottom hole shut-in pressure. So we do not know what the pressure has done, but the performance has been well -- has been good, and the surface tubing pressure was somewhere in the neighborhood of 475 pounds flowing, and at the time, it was flowing approximately, oh, I would say at the rate of 218 barrels a day, with a 475 pound working pressure.

I am not real sure of the choke. The report that I saw was -- excuse me just a minute. Jerry do we have that -- I think they showed the choke. I believe it was sixteen -- excuse me.

MR. KELLAHIN: Off the record here.

(Whereupon, an off-the-record discussion was held.)

A It probably doesn't matter just what the choke was. They had a positive choke, but I think it was a quarter inch choke and the tubing pressure was 475 flowing, with a packer in the hole, so there was no casing pressure.

Q Now, as a petroleum engineer, have you made any personal investigation of the area involved in this application?

A Yes, sir. The King field to the south and the Bronco-Silurian-Devonian to the north, from the standpoint of location, this well is located as you can tell on your -- actually it has not been brought in yet, I don't think, as an exhibit, but it will be seen that this location is located -- this field is located somewhat in between these two fields. It is right on trim, on the Devonian trim.

Q Now, that will be shown by a later exhibit and another witness --

A Yes, sir.

Q -- is this correct? Well, in your opinion as a petroleum engineer, and your knowledge of the area, in your opinion is the Bronco field a one-well field?

A In our opinion, we think it should cover at least another location or two, and possibly even more, due to the nature of the -- or due to existence of other fields, the history in the area and the performance, particularly the performance of this well strongly indicates that the field should extend certainly more, over a larger area than the eighty acres under which this well, the Ashmun-Hilliard well is producing.

Q Now, this is in reference to the Devonian formation --

A Yes, sir.

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Q -- is that correct?

A That is correct.

Q Are there other formations in the area that may be productive in your opinion?

A Yes, sir. We think the Wolfcamp certainly has a very good potential here, and as a matter of fact, there is -- excuse me -- several zones in the Pennsylvanian-Wolfcamp Section that could be productive, and also the Mississippian are all potential producing horizons.

Q Now, in the event you receive the force pooling order and drill the well, would you recommend that these other zones be tested?

A Yes, sir, these are in our plans as I will get to in the next exhibit. We have an AFE plan to thoroughly test these other zones.

Q Now, you have made a cost estimate, I take it?

A Yes, sir.

Q Referring to what has been marked as Exhibit Number 6, would you identify that exhibit, please? Before we get into that, there is a second sheet attached to Exhibit Number 5.

A Yes, that is the decline curve as plotted. As you can see, it is pretty level and shows no decline. And this

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further substantiates the fact that they would possibly have produced the well at higher rates if they so desired, but over the twenty -- actually a twenty month period as we have shown here, it hasn't exhibited any decline or increased in GOR or any water production. So this is one of the main -- one of the good reasons we feel like that this field certainly is larger than what is shown as being the, in other words, the eighty acre tract that is being produced there now by Ashmun and Hilliard.

Q Now, referring to what has been marked as Exhibit Number 6, would you identify that exhibit?

A This is comprised of two sheets. The first sheet, page 1, is Drilling and Testing Cost Estimate. We have -- we do this on all wells prior to drilling them. Prior to the drilling of any wells, we come up with an estimated cost, without any -- not trying to, not include any trouble, just the bare costs, bare minimum or just to cover everything that we can possibly think of in the drilling of a well. And according to this estimate, the cost of a dry hole will be something in the neighborhood of \$148,000, tested to the casing point, tested through the Devonian.

This includes four drillstem tests. We anticipate possibly two in the Wolfcamp-Pennsylvanian zone, and one in the

Mississippian and one in the Devonian, and the logs are necessary for drilling this type of well, casing and whatnot.

The second sheet shows the costs that it will take to complete the well should we decide to complete it as an oil well. The completion cost would be somewhere in the neighborhood of \$63,000.00, and to complete a well cost in the tanks would be something like \$208,000.00 to complete a well.

Q Have you had experience in drilling Devonian wells, Mr. Vasicek?

A Yes, sir, I have been in charge of drilling several Devonian wells in Texas and New Mexico. Just only one in New Mexico. As a consultant, just prior to forming our partnership, I was in charge of a 14,700 foot Devonian well, drilled approximately twelve miles to the southwest of this location, and we did not complete it as a Devonian well, it made a well in the Wolfcamp, that is the Austin-Wolfcamp, one well field.

Q This estimate is based on your experience in drilling those wells, is that correct?

A Yes, sir, yes, sir. Well, that and talking to different people. Actually there was a lot of research done on this. It is just not my own -- what I mean, it is a

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research on my own part, but there is a lot of experience that has gone into these cost estimates. I feel they are quite in line. I might -- excuse me.

Q Go right ahead.

A This does not include any possible problems that might be, or we might encounter such as loss of circulation and blowout, however, blowouts-- you don't have any blowouts in this area, at least I don't know of any. However, I think they did lose circulation on the Ashmun-Hilliard-Whitmyer. They had a pretty bad loss of circulation going, but I don't recall exactly what it is, but I do know they lost circulation there for several days.

Q Now, you heard the previous testimony in regard to operating costs. Have you any idea of what the operating costs will amount to on this well?

A Yes, sir, we try to operate our wells as cheaply as possible. I usually do all the contracting personally, and a pumper can usually be hired for anywhere -- when you get an isolator well like this, it just costs a little bit more, around seventy-five to a hundred dollars a month, and sometimes you can make a deal for sixty or sixty-five. They furnish everything, vehicle and all. That is total cost.

And if you have a flowing well, without any problems,

in other words, a trouble free well where you don't have to use chemical, you don't have -- you are set up to handle oil, and you don't make any water, you don't have to treat your emulsions and whatnot, it is entirely possible to have a lifting cost, oh, I would say probably for -- we could probably produce that well maybe for as low as \$250.00 a month, including the \$100.00 for the S and O charges. In other words, a \$150.00 and an additional 200 and probably get by pretty well. As a matter of fact, even maybe less. But, I would say an average cost, in other words, right down the line, you better start looking -- you had better be looking at \$300.00 over a period of years.

Now, if the well makes water, you have got problems. Any time you are going to handle water, your well is going to quit flowing, you are going to have pumping installations, you are going to have electric bills, you are going to have whatever you want to use for prime mover, depending -- engines are troublesome too, you know. Wear and tear on circle rods, pulling jobs, or if you have got circle rods, kobe installations, you still got problems. And the cost can really go high, they can skyrocket, depending on how much water you are going to lift, and who knows when you have a water drive reservoir such as I think, I have an idea that this is what

this is. If you ever make water, it could be as high as 850, \$900.00 a month lifting cost.

Q Now, you mentioned this problem of loss circulation in the Ashmun-Hilliard well. Are there any other risks involved in drilling a well in this area?

A I don't know of any real risk, except that any time you go throughout the Abo shale, it is always possible you can get in trouble, particularly, say, on drillstem tests, if your mud, something happens to your mud, or it isn't just right, you might be leaving yourself open for a pretty good fishing job, something like that at any time, or even when you are logging, sometimes it is difficult to get your logs to bottom.

One of the main things I always fear for, is having a borderline situation to where you think you have a well and you don't and you run pipe and you have one of these, what we call expensive dry holes, to where you tried to make a completion and you didn't know whether you should have plugged it to begin with or not.

Q Well, would you consider that a risk involved in the drilling of a well?

A Yes, sir, that is in any, almost any well.

Q You are familiar with the New Mexico Statute, are

you not, which provides that in a force pooling case, the Commission can permit the recovery of the reasonable costs of drilling the well, including a reasonable charge for supervision?

A Yes, sir.

Q And may include a charge for the risk involved in the drilling of such well, which charge for risks, shall not exceed fifty percent of the non-consenting working interest owner or owner's prorata share of the costs of drilling and completing the well?

A Yes, sir.

Q You are familiar with that? Have you any estimate as to what the risks involved in this particular area and this specific well would be?

A Well, this is pretty hard to answer because a well of this magnitude, of this cost, and any time you drill a Devonian well, the experience of the Devonian, you can drop off in a hurry and there is just a lot of inherent risks that you cannot put your finger on. I would say that fifty percent would be a minimum for expenditure in a project of this type.

Q Were Exhibits 5 and 6 prepared by you or under your supervision?

A Yes, sir.

MR. KELLAHIN: I would like to offer in evidence Exhibits 5 and 6.

MR. NUTTER: Applicant's Exhibits 5 and 6 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 5 and 6 were admitted in evidence.)

MR. KELLAHIN: I have nothing further of this witness.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Vasicek, what do you base your fifty percent risk on? I mean, our statute provides that we can allow up to fifty percent, so it would appear that fifty percent would be the risk factor under the most extreme conditions, and I might inform you that we have established risk factors as low as ten percent and in some cases, on up to that fifty percent. Now, we have usually saved the fifty percent for extremely doubtful situations.

MR. KELLAHIN: If the Examiner please, I brought this out and I am not objecting to the question, but we will have some additional testimony in regard to this risk factor, and I merely brought this out from his point of view as a

petroleum engineer in the drilling of the well.

MR. NUTTER: I note that Exhibit 7, here, is going to have a picture of the structure and so forth, so we will get into the actual risk of the location --

MR. KELLAHIN: This is correct.

MR. NUTTER: -- with another witness, then?

MR. KELLAHIN: That is correct.

MR. NUTTER: Okay, that is fine.

MR. KELLAHIN: But, I only meant to bring it out from his point of view as an engineer and --

A To answer your question possibly as partially, I mean in part. From a standpoint of drilling a well, these costs here are what I call bare minimum, no trouble, and any time you drill a well, you know, you could get in trouble, I don't care if it's a posthole, you might get hung up and have a, although, just have a pretty good cost for treating the tools, or whatever, such as, it is not clearly out of the ordinary to leave a logging tube in the hole, that just happened to me. And any time you run anything in a hole, chances are you won't get it out and you might even junk the hole. The casing collapse or whatnot, going through the salt section, and any time you have to set intermediates, there is always problems. The bottom joint might flip off, there is just

a lot of things, which I don't think it is -- we as operators, we accept these things you understand, but on the other hand, this cost estimate here does not include any problems that I mentioned, this is right straight down the line of what I think the cost will be.

Q You don't have any contingency fund here --

A No, sir.

Q -- to fall back on?

A Sure don't.

MR. NUTTER: Okay, are there any other questions of Mr. Vasicek? Mr. Morris?

CROSS EXAMINATION

BY MR. MORRIS:

Q Mr. Vasicek, is there any more risk involved in the drilling of this well than any other Devonian well?

A Any other Devonian well, where? Where do you mean?

Q You say --

A Just any other Devonian well?

Q You say you are familiar with the drilling of Devonian wells in this area. Is there any particular reason why you would expect to incur special risk in drilling this well?

A I wouldn't call it exactly a special risk, however,

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when you have a well that is drilled just to the east of you where they lost circulation for several days, and I talked to the man that furnished the water on the well, he is an irrigation farmer on the land, and he said they used about four times as much water on that well than they had anticipated and they had contracted for. This is where I get a lot of my -- some of my information.

Any time you lose circulation, you are not only facing a high mud bill, but you are facing problems that evaluate in your well from the standpoint of logging and testing, and there is also a possibility of blowout, because, due to investing of a higher static head. So, I would say there is a possibility here, over and above, say, an ordinary Devonian well, that the cost could be -- the risk could be a little higher here. Drilling contractors certainly investigate all records and don't think they don't know that there is loss circulation problem there when they start bidding on the footage basis, because they -- well, it just adds to the cost of the well in general.

Q Did they have any loss circulation problem in the drilling of the Ashmun-Hilliard well to the northeast of you?

A Not to my knowledge, to the northeast that is the --

MR. NUTTER: That would be the producing well.

Q It produces --

A Oh, no, I don't think they did. I don't think they did.

MR. MORRIS: That's all.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Vasicek, you have got \$10,000.00 worth of mud here and \$2,000.00 worth of oil on your AFE.

A Yes, sir.

Q Is that a normal mud bill for a Devonian well?

A I think it is. It is pretty normal, yes, sir.

Q It doesn't include any loss of circulation materials?

A No, sir, it does not. You see, the \$10,000.00, ordinarily, let me put it this way. You could probably get by with a cheaper mud bill, but our procedure in evaluating this property, calls for mudding up much earlier than what some people would do just by blaring down the Devonian and trying to complete there. We have to evaluate -- we want to evaluate all these zones up above. In order to do this, this takes a higher mud bill, a higher cost in general.

Q Now, you say you have got four drillstem tests run here, you said you tested the Pennsylvanian, Wolfcamp, Mississippian and Devonian?

A Yes, sir. This is just something to shoot at. It could be more. As you know, the Bursom zone there, you know it has got several possibilities and we might even have as much as six or seven tests in there. But, this is just for our -- just kind of an average. Four -- four tests should be adequate.

Q And \$1,650.00 is a normal charge for a drillstem test?

A Absolutely, very normal.

Q If you have several drillstem tests run at the same time, is it still \$1,650.00 a piece?

A Yes, sir, in other words, every time you run a test, you have got rig time involved and tools, see, and rigs usually run at this depth for day rates, you know, you go on day rates, about \$1,200.00 or eleven or twelve, somewhere in that neighborhood, and \$400.00 for -- and you just as well figure twenty-four hours any time you run drillstem tests anywhere below, oh, I would say below 10 or 11,000 feet.

Q Well, even at a total here of \$207,813.00 you are still less drilling costs than were furnished -- or completion

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costs, than were furnished to Ashmun and Hilliard in the letter of July 18th, I think. The estimate there was \$150,000.00 to look at the bottom of the hole and \$65,000.00 to complete which would be \$215,000.00. So, your estimate, still is something less than what was furnished to Ashmun and Hilliard originally, is that correct?

A I don't recall exactly. I think when we wrote the letter to Ashmun and Hilliard, we were just estimating it, just kind of trying to round it off, am I right on that Jerry? It was just a rounding off deal, is what it was.

Q Then on the final estimate, you hadn't gone over the figures that were furnished to him, certainly it come out less than the estimate that was furnished him?

A Yes.

MR. NUTTER: Any further questions of the witness?
He may be excused.

(Witness excused.)

MR. KELLAHIN: I would like to call Mr. Pennel.
H. D. PENNEL, called as a witness on behalf of the Applicant, having been previously duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A My name is H. D. Pennel.

Q What business are you engaged in Mr. Pennel?

A I am a consulting geologist and a partner in this deal.

Q Where are you located?

A In Midland, Texas.

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

A Yes, sir.

Q Have you made your qualifications as a geologist a matter of record?

A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

Q (By Mr. Kellahin) Mr. Pennel have you made a study of the area involved in the application that is presently before the Commission?

A Yes, sir.

Q What did you do in connection with that study?

A I constructed several contour maps. One, the first one I should like to present is Exhibit Number 7, a

regional map showing the trends of the Devonian fields, and the positions of the Bronco West and the Gladiola South fields in that trend.

You will note, roughly a north-south trend and we think it is part of that field's system. The regional map also includes API reserve figures on the various fields with many years of history behind them.

Q Now, in general, that shows the alignment of the Bronco field in relation to the other Devonian pools in the area, doesn't it?

A Yes, sir.

Q In your opinion, is the Bronco field, based on that information, a one well field?

A No, sir. I think, from my geological interpretation it should be larger. Now, I don't think it is going to be a large field, but I think it could very well be comparable to the King field to the south, four miles south and one mile west, indicated on the map. I think it would be very comparable to that. Although, we might be just a little bit optimistic, it might be a three or a four well field.

(Whereupon, Applicant's Exhibit Number 8 was marked for identification.)

Q Now, referring to what has been marked as Exhibit

Number 8, would you identify that exhibit, please?

A Exhibit Number 8 is an information map which we put together to provide answers to a great many questions, all on one map, showing the position of our southwest quarter of Section 6, and the drillstem tests and the geological horizons on each well. Incidentally, I don't consider the Ohio well to the south in Section 13 and the Gulf well to the west in Section 12 as part of our prospect or our anomalous area. I think they are something else, they are just wildcats in the immediate area, but the information is there for whatever purpose it might serve.

Q What is the source of this information?

A Electrical logs and scout tickets.

Q And you compiled it --

A Yes, sir.

Q -- for the purpose of this hearing?

A Yes, sir.

Q And the information does show all of the geologic tops in the area, does it not?

A Yes, sir.

Q As well as all tests that were made to your -- which you had any information?

A Yes, sir.

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(Whereupon, Applicant's Exhibit Number 9 was marked for identification.)

Q Now, referring to what has been marked as Exhibit Number 9, would you identify that exhibit, please?

A Exhibit Number 9 is a structural contour map on the top of -- well, I call it the top of a Permo-Penn Marker, there is a number of markers in this immediate area and the log, which is an inset on the map, indicates the marker I used. It is a fairly, shall I say, standard marker among geologists in the area, to contour up in that part of the section, and it is pretty close to the top of the Pennsylvanian, but it is, I think, still in the Permian, anyway, it is a substantial marker and I have constructed this map and called it the top of the Permo-Penn Marker, contour interval, fifty feet.

It indicates, as you can see, that there is a fairly large anomalous area that could extend over a good part of the southwest quarter of Section 6.

Q Now, there has been Wolfcamp production in this area, has there not?

A Yes, the third well that was drilled on this prospect was drilled by Sunray on the Fulton in the southeast, southwest of Section 6. It made water and a good show of

oil as indicated on the information map, in the Devonian, but, of course, did not produce and it was plugged back to what we call the Wolfcamp, at 9700 feet, where it produced over a period of some seven years, 125,000 barrels of oil.

Q The well, at the present, is plugged and abandoned, is this correct?

A It is presently plugged and abandoned.

(Whereupon, Applicant's Exhibit Number 10 was marked for identification.)

Q Now, referring to what has been marked as Exhibit Number 10, would you identify that exhibit, please?

A This is a structural contour map, Exhibit Number 10, on the top of the Devonian; contour interval a hundred feet.

I should like to point out, that there are three wells in the prospective area that actually penetrated the Devonian, being the Cosden Well in the northwest corner of Section 6, the Ashmun-Hilliard producer, and the Sunray-Fulton in the southeast-southwest of 6. Other points in the area, geological horizons in the area, have been projected. In other words, they are what you might call an educated guess, an estimate of where the top of the Devonian would have been encountered had the wells been drilled that deep. So, those

points are used for interpretations in this contour map and the three actual Devonian points.

Q Well, your projected depths are based actually on your interpretation log on some higher formation --

A Yes, that's right.

Q -- correlating it to the Devonian, is this correct?

A Yes.

Q Now, what control do you have in connection with your 8400 foot line marked "Oil-Water Contact"?

A The Sunray-Fulton, on the formation map shows a drillstem test of the top of the Devonian from 12282 to 320, tool open four hours, recovered 4,000 feet of water blanket, 280 feet of slightly oil and gas-cut mud, 2,000 feet of slightly oil and gas-cut salt water, 1810 feet of salty sulphur water, flowing pressures 1930 to 3185, final shut-in pressure, forty-five minutes, 4955. Now, that is the only information that we have that would indicate where the oil-water contact might be.

We feel sure that it is no lower than the top of the porosity in the Sunray-Fulton, which is 12,290 feet.

Q Well, actually on the west, it could be closer to your proposed location than you indicate here, is this correct? X
You have no control on the west?

A No.

Q And this is just your interpretation based on what information you do have?

A Yes, sir.

Q Now, on the basis of the exhibits that you have offered, Mr. Pennel, this would indicate that a well drilled to the Devonian at the location proposed here, would be productive of oil, as was the Ashmun-Hilliard well to the north, is this correct?

A Yes, sir.

Q Do you have any other information that would indicate that perhaps this is not as good a location as is indicated by these exhibits?

A Yes, sir.

(Whereupon, Applicant's Exhibit Number 11 was marked for identification.)

Q Referring to what has been marked as Exhibit Number 11, would you identify that exhibit, please?

A Exhibit Number 11 is an interpretation of seismic data in the area and included with the seismic data are the known points and the projected points on the top of the Devonian. You will find the known points, the wells that actually penetrated the Devonian are underlined in red and

the projected points are underlined in green, and the seismic points, shot points are indicated by a smaller circle.

Now, we received this seismic information in exchange for some other information in another area, and we know it is authentic, we saw the original maps, and it is an interpretation of seismic information in the area. And it is not too optimistic as you can see.

Now, I can't see any other way to contour, on the basis of this information, the area immediately around the Ashmun and Hilliard Maxwell, to be any larger than it is, or to extend down into our leasehold.

Q Actually, then, if your interpretation, as shown on Exhibit Number 10, showing the water-oil contact, 8400 feet is correct, then the chances are, a well drilled as proposed by V-F Petroleum at the location proposed here, would encounter water, would it not?

A It would.

Q This is a risk that is involved in the drilling of this well?

A Very definitely.

Q Mr. Pennel, you are familiar with New Mexico's statute in regard to force pooling, are you not?

A I am.

Q You are aware that the Commission can grant no more than a fifty percent risk factor under the statute, you understand this?

A Sure.

Q I believe you were present when the previous witness was testifying and Mr. Nutter said "This has generally been considered to be the maximum risk factor."

A Yes, sir.

Q Based on your interpretation of the geological information you have and the seismic information that has been made available to you, what do you consider a reasonable risk factor for the drilling of the V and F Petroleum well?

A Well, I shudder to put a numerical figure on a risk factor, but unquestionably, this is a wildcat well, even though it is 1400 feet from a producer. I should like to refer back here, if I may, to Exhibit Number 8, the information map, and point out the dates at which the earlier wells were drilled in this area, just by way of leading up to what I am going to say here. The Sunray well in the northwest-northeast of Section 7, the Sunray was drilled -- was the first well in the area, drilled by Sunray and what was known as an anomalous area. And they missed it, they didn't go to the Devonian, but they were running very low and

abandoned the well. That was the Number 1.

The Number 2 Well was the Sunray Fulton in the southeast, southwest of Section 6 and it made a well out of the Wolfcamp, but did not produce from the Devonian, and the Devonian was the primary objective.

Now, their Number 3 Well, based on their information, was spotted in the southeast corner of Section 1 to the west, and it had a good show in the Wolfcamp, but was low enough that they did not choose to take it to the Devonian. There were three wells they had drilled and had not found the Devonian.

The Number 4 Well, chronologically here, was the Cosden well in the northwest corner of 6, and they did not find the Devonian with oil in it, they found, they had to go to water show in the Devonian. And Ashmun-Hilliard finally found it with their fifth well and presumably, all the available scientific information that the industry had to offer, it took five wells to find the top of this Devonian field and I would call that pretty risky.

Q Would you consider a fifty percent risk factor a reasonable risk factor on this well?

A Yes, I would, and I would say we stand more than a fifty-fifty chance of getting a dry hole.

Q Actually, there was a sixth well that was a dry hole, was there not, Ashmun and Hilliard's well located in Section 6?

A Yes. After they finished, immediately after they finished the producer in the southeast, northwest of 6, they drilled a well in the northwest, southeast of 6, known as the Number 1 Whitmyer. I presume that that was to be a high well. They took it down to the top of the Mississippian, at which point it ran -- it was about a hundred and fifty, sixty feet low, something like that, to the discovery and would obviously be low in the Devonian since the Mississippian section does not vary greatly in the area.

Q Were Exhibits 7, 8, 9, 10 and 11 prepared by you or under your supervision?

A Prepared by me.

MR. KELLAHIN: I would like to offer Exhibits 7 through 11 inclusive.

MR. NUTTER: Applicant's Exhibits 7 through 11 will be admitted in evidence.

MR. MORRIS: Mr. Examiner, could I ask that the Examiner withhold the ruling on the admissibility of Exhibit

11 until after Cross Examination?

MR. NUTTER: All right, sir. Exhibits 7 through 10 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 7 through 10 were admitted in evidence.)

MR. KELLAHIN: That's all on Direct Examination.

MR. NUTTER: Mr. Morris.

CROSS EXAMINATION

BY MR. MORRIS:

Q Mr. Pennel, will you put most reliance on your structural interpretation as shown on Exhibit 10, or on the interpretation of the seismic data as shown on Exhibit 11?

A It is obvious that we are placing more reliance on Exhibit 10 or we wouldn't be interested in drilling the well.

Q Now, on Exhibit Number 10, your proposed location would actually be at the optimum point on the structure, would it not?

A We think so, yes.

Q Now, with respect to Exhibit Number 11, what was the source of your information for the preparation of this exhibit?

A I am not at liberty to disclose the actual source

of the information. Seismic information isn't the sort of thing that passes freely, particularly the good seis and, but I guess you will have to take my word for the fact that it is authentic. It was done by a small major company and the points are authentic from their map.

Q Do you have that map with you, sir?

A No, sir.

Q Do you have any of the information with you, basic information with you, from which you prepared this exhibit?

A No, sir.

MR. MORRIS: At this time, Mr. Examiner, I would move that Exhibit Number 11 not be accepted into evidence. I have no ability to cross examine Mr. Pennel with respect to the preparation of this exhibit since he does not have the underlying material available and is unwilling to furnish the basis or the source of his material.

MR. KELLAHIN: If the Examiner please, I think the objection may go to the weight to be given to the exhibit rather than to its admissibility, the witness having testified that he has examined the seismic data and this is an accurate reflection of what he examined. Certainly the Commission is well aware that seismic information is seldom offered over here in this Commission, very seldom is it available.

dear day - mother

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or eighty feet low to his well.

Now, I think it would be possible, if the Examiners would like to have a continuance of this hearing to perhaps produce in evidence Ashmun and Hilliard's own seismic information, which might be difficult for their attorney to dispute.

MR. NUTTER: Well, the trouble of it is, Mr. Fullinwider, you all have seen that and you all have seen ^{hasn't} this and you know the source of this, but Mr. Morris ~~doesn't~~ I think that this case fairly well speaks for itself. I don't think you would drill the well on the basis of this seismic map, I think you are going -- Mr. Pennel stated that he was drilling the well on the basis of his own geological interpretation. Now, your's is strictly on log tops and geological information --

THE WITNESS: Yes, sir.

MR. NUTTER: -- as depicted from the logs?

THE WITNESS: Yes, sir, and optimism.

MR. NUTTER: Well, the purpose of this is to drill the well and the purpose of this one is to get a high risk factor?

MR. KELLAHIN: Correct.

MR. NUTTER: I think we will admit the exhibit, Mr.

Morris and do exactly as Mr. Kellahin suggested. We will take it for what we consider it to be worth.

MR. MORRIS: I have no further questions.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Pennel, you know the history of this seismic map, was this seismic map available at the time any of these wells, these six wells, which are show here, were drilled?

A Yes, sir, the seismic work was done prior to the drilling of the two Asmun and Hilliard wells and after Number 4 Well, or the Cosen well was drilled, and prior to the drilling of the Ashmun and Hilliard wells, so the Ashmun and Hilliard wells were well placed, certainly the discovery was well placed on this seis, even though it was made before the well was drilled.

Q It would appear that the second Ashmun and Hilliard well would be about the same position, structurally as your proposed location from this seismic map, is that correct?

A Yes, sir.

Q And that well never did go to the Devonian. The Mississippian was running approximately a hundred and eighteen feet below the Number 5, so they didn't take it to the Devonian?

A That's right, sir.

MR. NUTTER: Are there any further questions of the witness? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything to say, Mr. Morris?

MR. MORRIS: Mr. Examiner, our position in this is that Ashmun and Hilliard realizes that it can offer no objection to the compulsory pooling in this case, it does not offer any objection to it, however, our concern is that the Commission establish a reasonable charge for supervision and a reasonable charge for the risk involved in the drilling of the well.

I believe as far as the charge for supervision is concerned, Mr. Fullinwider has testified that \$100.00 would be reasonable for supervision and we have no quarrel with that.

As far as the charge for risk involved in drilling of the well is concerned, just, I think it is evident that here we are talking about the drilling of a well only some 1400 feet away from the, a good well, and that the structure map on which the well is being drilled, certainly indicates that this well is likely to be, if anything, better than the

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Ashmun and Hilliard well. We trust that the Examiner and the Commission will bear these thoughts in mind in fixing the risk factor in which we would offer no opinion on.

MR. NUTTER: Mr. Kellahin.

MR. KELLAHIN: If the Examiner please, since there is no objection to the force pooling, why we haven't any problem here. Admittedly, the acreage will have to be pooled or the well can't be drilled, and the economics certainly enters into the picture when you start talking about the risk factor, because the Applicant, here, is being asked to carry a three-sixteenths working interest, which is a pretty heavy interest for a well of this cost.

Now, you say we are drilling within 1400 feet of the producing well, I point out that Ashmun and Hilliard likewise drilled approximately 1400 feet from that same producing well and got a dry hole, so that point is up to the risk. I think further, the testimony offered by Mr. Pennel, brings it home to us, that we are talking about something like a six to one shot. There has been six dry holes and one producer drilled in an effort to develop the West Bronco field. Admittedly, all of these wells didn't go clear to the Devonian, but based on the structure encountered and its position, there was no use in carrying them on down, and

they were admittedly dry in the Devonian. So, the risk factor we are talking about, in addition to the normal risks incurred, encountered in drilling a well to the Devonian formation and the possibility of loss of circulation as discussed by Mr. Vasicek, we also have the long shot of making a producer out of this and they are gambling a considerable amount of money, and we feel that the Applicant is entitled to the maximum risk factor.

MR. NUTTER: Thank you. Does anyone have anything further they wish to offer in this case? If not, we will take Case 3633 under advisement.

STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

I, JERRY POTTS, Court Reporter and Notary Public, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission Examiner at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 29th day of August, 1965.

Jerry Potts
Court Reporter and 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. 3832 heard by me on Aug 9, 1967.
[Signature], Examiner
New Mexico Oil Conservation Commission

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 9, 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 3630: Application of Pan American Petroleum Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Hogback-Dakota Pool, San Juan County, New Mexico, to permit the drilling of wells as near as 165 feet to the outer boundary of the quarter-quarter section, and as near as 300 feet to another well producing from the same formation.

CASE 3431: (Reopened) To be continued to the September 6, 1967 Examiner Hearing.

In the matter of Case 3431 being reopened pursuant to the provisions of Order No. R-3100 to permit Sinclair Oil & Gas Company to show cause why its W. H. Turner Well No. 1 located in Unit L of Section 29, Township 21 South, Range 37 East, Lea County, New Mexico, a dual completion in the Drinkard and Blinbry Oil Pools, should not be completed in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

CASE 3631: Application of Gulf Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Simpson formation through two wells on its C. E. La Munyon Lease in Section 22, Township 23 South, Range 37 East, Teague-Simpson Pool, Lea County, New Mexico.

CASE 3632: Application of Len Mayer 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 no nearer than 990 feet from the North and East lines, nor nearer than 330 feet from a quarter-quarter section line, of Section 32, Township 18 South, Range 26 East, Atoka-Permsylvanian Pool, Eddy County, New Mexico, in exception to the pool rules which require that wells be drilled in the NW/4 or the SE/4 of the section.

CASE 3633: Application of V. F. Vasicek and J. M. Fullinwider, dba V-F Petroleum for compulsory pooling, Lea County, New Mexico. Applicants, in the above-styled cause, seek the force-pooling of all mineral interests in the NW/4 SW/4 of Section 6, Township 13 South, Range 37 East, Lea County, New Mexico, to be dedicated to a well to be located 2310 feet from the South line and 990 feet from the West line of said Section 6, said well being projected to the Devonian formation adjacent to the West Bronco-Devonian Pool.

CASE 3634: Application of Aztec Oil & Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Federal "MA" Well No. 2 located in Unit I of Section 21, Township 18 South, Range 33 East, Lea County, New Mexico, to produce oil from an undesignated Wolfcamp pool and gas from the South Corbin-Morrow Gas Pool through parallel strings of tubing.

FILED
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BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

APPLICATION OF V-F PETROLEUM FOR
AN ORDER FORCE POOLING INTERESTS
IN THE NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 6, TOWN-
SHIP 13 SOUTH, RANGE 38 EAST, LEA
COUNTY, NEW MEXICO

Case 3633

A P P L I C A T I O N

Come now V. F. VASICEK and J. M. FULLINWIDER, doing business as V-F Petroleum, and apply to the Oil Conservation Commission of New Mexico for an order force pooling all mineral interest in and under the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 6, Township 13 South, Range 38 East, N.M.P.M., Lea County, New Mexico, and in support thereof would show the Commission:

1. Applicants are the owners of a 13/16 mineral interest in and under the subject tract, together with other lands in the vicinity of said tract, and have the right to drill for, develop and produce the oil, gas and hydrocarbon substances underlying said lands.

2. There are separately owned interests in the oil and gas minerals embraced within said tract, and the owner or owners thereof have not agreed to pool their interests for the drilling of a well to any common source of supply underlying said tract; to the best of applicants' information and belief, Ashmun & Hilliard are the owners of a working interest in said land.

3. To the best of applicants' information and belief said tract may reasonably be presumed to be productive of oil from the Devonian formation, and possibly from the Wolfcamp

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Date *7-27-67*

or other formations.

4. Applicants propose to drill a well to be located 2,310 feet from the South line and 990 feet from the West line of said Section 6, and to drill said well to an approximate depth of 12,300 feet to test the Devonian formation.

5. The drilling of a well as proposed by applicants involves the assumption of risks, and provision should be made for a risk factor in the event the working interest owners do not elect to participate in the cost of drilling such well prior to its completion, to be recovered out of production, and provision should also be made for charges for supervision.

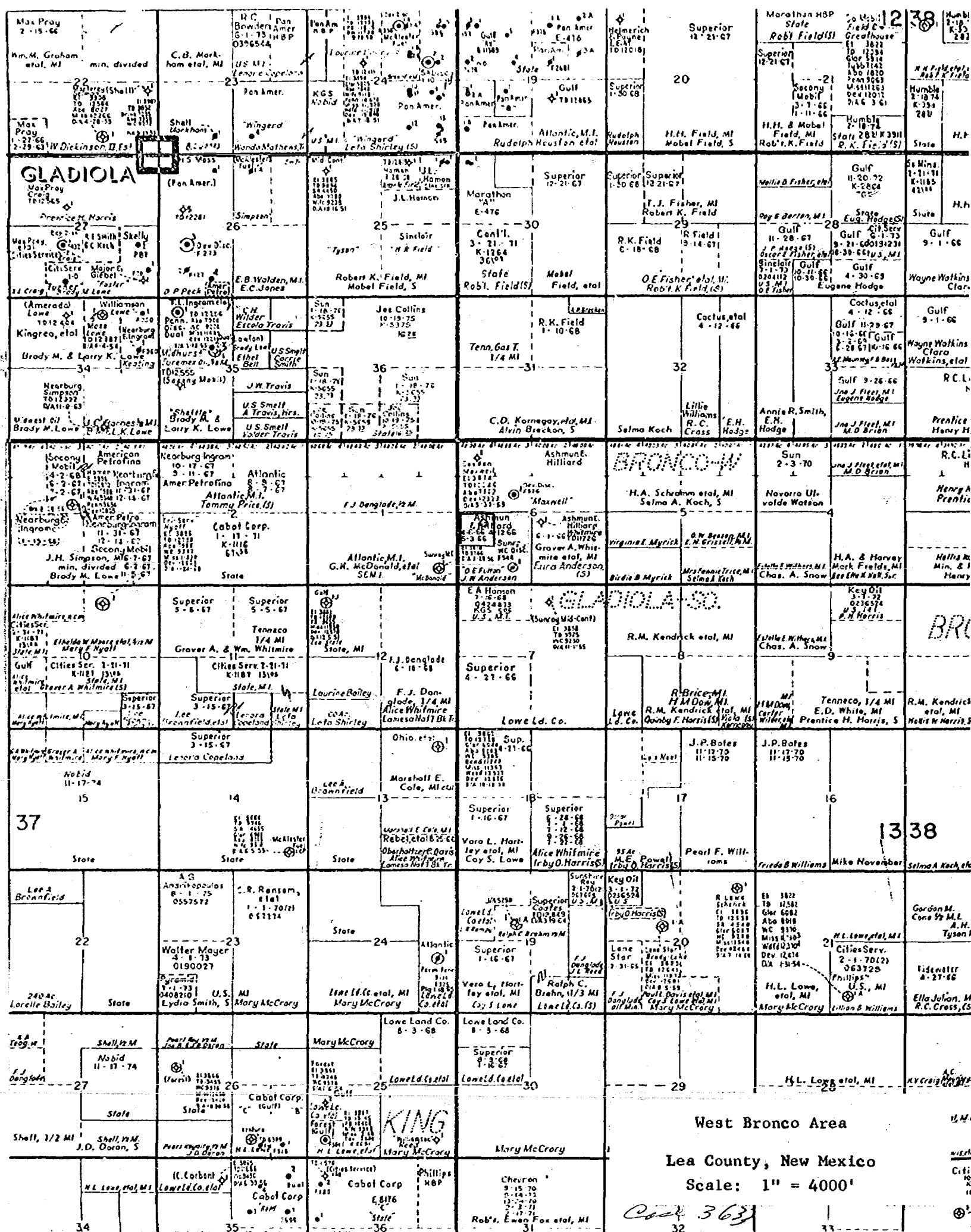
WHEREFORE applicants pray that this application be set for hearing before the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order force pooling all of the interest in and under the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 6, Township 13 South, Range 38 East, N.M.P.M., together with suitable provision for charges for supervision together with a charge for the risk involved in the drilling and completion of a well on said unit, to be recovered from any non-consenting working interest owner's pro rata share of production, as provided by law.

Respectfully submitted,

V-F PETROLEUM

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

ATTORNEYS FOR APPLICANTS



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. 3633
Order No. R-3307

APPLICATION OF V. F. VASICEK AND
J. M. FULLINWIDER, DBA V-F PETROLEUM
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

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

NOW, on this 11th day of September, 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 applicants, V. F. Vasicek and J. M. Fullinwider,
dba V-F Petroleum, seek an order pooling all mineral interests
down to and including the Devonian formation underlying the NW/4
SW/4 of Section 6, Township 13 South, Range 38 East, NMPM, Lea
County, New Mexico.
- (3) That the applicants have the right to drill and propose
to drill a well in the NW/4 SW/4 of said Section 6 to the Devonian
formation adjacent to the West Bronco-Devonian Pool.
- (4) That there are interest owners in the proposed proration
unit who have not agreed to pool their interests.

-2-

CASE No. 3633
Order No. R-3307

(5) That to avoid the drilling of unnecessary wells, to protect correlative rights, and to afford to the owner of each interest in said unit the opportunity to recover or receive without unnecessary expense his just and fair share of the oil in said pool, the subject application should be approved by pooling all mineral interests, whatever they may be, within said unit.

(6) That the applicants should be designated the operators of the subject well and unit.

(7) That any non-consenting working interest owner should be afforded the opportunity to pay his share of estimated well costs to the operators in lieu of paying his share of reasonable well costs out of production.

(8) That any non-consenting working interest owner that does not pay his share of estimated well costs should have withheld from production his share of the reasonable well costs plus an additional 40% thereof as a reasonable charge for the risk involved in the drilling of the well.

(9) That any non-consenting interest owner should be afforded the opportunity to object to the actual well costs but that said actual well costs should be adopted as the reasonable well costs in the absence of such objection.

(10) That following determination of reasonable well costs, any non-consenting working interest owner that has paid his share of estimated costs should pay to the operators any amount that reasonable well costs exceed estimated well costs and should receive from the operators any amount that paid estimated well costs exceed reasonable well costs.

(11) That \$100.00 per month should be fixed as a reasonable charge for supervision and operational overhead for the subject well and each non-consenting working interest owner should be assessed with his share of such cost, to be paid out of production.

(12) That all proceeds from production from the subject well which are not disbursed for any reason should be placed in escrow to be paid to the true owner thereof upon demand and proof of ownership.

IT IS THEREFORE ORDERED:

(1) That all mineral interests, whatever they may be, down to and including the Devonian formation underlying the NW/4 SW/4 of Section 6, Township 13 South, Range 38 East, NMPM, Lea County, New Mexico, are hereby pooled to form a 40-acre oil proration unit to be dedicated to a well to be located 2310 feet from the South line and 990 feet from the West line of said Section 6.

(2) That V. F. Vasicek and J. M. Fullinwider, dba V-F Petroleum are hereby designated the operators of the subject well and unit.

(3) That the operators shall furnish the Commission and each known working interest owner in the subject unit an itemized schedule of estimated well costs within 30 days following the date of this order.

(4) That within 30 days from the date the schedule of estimated well costs is furnished to him, any non-consenting working interest owner shall have the right to pay his share of estimated well costs to the operators in lieu of paying his share of reasonable well costs out of production, and that any such owner who pays his share of estimated well costs as provided above shall remain liable for operating costs but shall not be liable for risk charges.

(5) That the operators shall furnish the Commission and each known working interest owner in the subject unit an itemized schedule of actual well costs within 30 days following completion of the well; that if no objection to the actual well costs is received by the Commission and the Commission has not objected within 60 days following completion of the well, the actual well costs shall be the reasonable well costs; provided however, that if there is an objection to actual well costs within said 60-day period, the Commission will determine reasonable well costs after public notice and hearing.

(6) That within 30 days following determination of reasonable well costs, any non-consenting working interest owner that has paid his share of estimated costs in advance as provided above shall pay to the operators his pro rata share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operators his pro rata share of the amount that estimated well costs exceed reasonable well costs.

-4-

CASE No. 3633

Order No. R-3307

(7) That the operators are hereby authorized to withhold the following costs and charges from production:

- (A) The pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.
- (B) As a charge for the risk involved in the drilling of the well, 40% of the pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(8) That the operators shall distribute said costs and charges withheld from production to the parties who advanced the well costs.

(9) That \$100.00 per month is hereby fixed as a reasonable charge for supervision and operational overhead for the subject well, and the operators are hereby authorized to withhold from production the proportionate share of such cost attributable to each non-consenting working interest.

(10) That any unsevered mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for the purpose of allocating costs and charges under the terms of this order.

(11) That any well costs or charges which are to be paid out of production shall be withheld only from the working interests' share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

(12) That all proceeds from production from the subject well which are not disbursed for any reason shall be placed in escrow in Lea County, New Mexico, to be paid to the true owner thereof upon demand and proof of ownership; that the operators shall notify the Commission of the name and address of said escrow agent within 90 days from the date of this order.

-5-

CASE No. 3633

Order No. R-3307


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

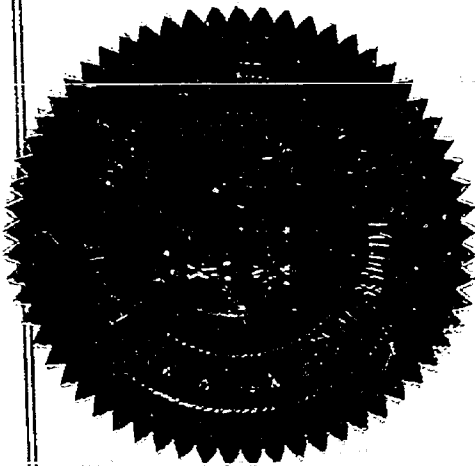
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON B. HAYS, Member


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



esr/

12/7/67 = 2/1/1968

MINERAL TAKEOFF
SW/4 SECTION 6, T-13-S, R-38-E, NMPM
JUN COUNTY, NEW MEXICO

MINERAL TAKEOFF
SW/4 SECTION 6, T-13-S, R-38-E, N1PM
LEA COUNTY, NEW MEXICO

SW/4 SECTION 6, T-13-S, R-38-E, MAP 11 LEA COUNTY, NEW MEXICO			NET ROY. ACRES
NAME	ADDRESS	INTEREST	
Eura Belle Anderson	RFD #2 Spring Hill, Kansas or Box 947 Tatum, New Mexico (surface owner)	1/16	10.0
Eliz. P. Davis et vir Roger H.	220 Mercantile Continental Bldg., Dallas, Texas	1/8	20.0
Francis Fell Malone et vir Wallace G.	7600 Burgoyne Apt. 103 Houston, Texas	.455 x 1/64	1.1375
Eliz. Fell Cummings et vir Harry E. Jr.	Box 1466 Enid, Oklahoma	.175 x 1/64	0.4375
John W. Nichols et ux Mary D.	1120 Liberty Bank Bldg., Oklahoma City, Okla.	.370 x 1/64	0.9250
C. E. Oberholtzer et ux Marjorie J.	Box 55, Vista, California	1/16	10.0
L. R. Rappy et ux Myrtle Mae	1902 Ave. "F" Lubbock, Texas	1/8	20.0
J. D. Jones et ux Alice	1915 30th St. Lubbock, Texas	3/32	15.0
L. L. Ford et ux Ann	2733 South 5th Street Abilene, Texas	1/32	5.0
Agnes B. Garner	Box 2143 Salem, Oregon	1/16	10.0
Home-Stake Royalty Corp.	507 Philtower Tulsa, Oklahoma	1/32	5.0
Home-Stake Oil & Gas Co.	" " " "	1/32	5.0
H. M. McMillan et ux Juanita S.	611 World Bldg., Tulsa, Oklahoma	1/64	2.5
Howard J. Conhaim et ux Bettie M.	1309 Thompson Bldg., Tulsa, Oklahoma	3/32	15.0
Carl B. King et ux Florence	Box 19734, Dallas, Texas	1/16	10.0
Opal Effie Fulton et vir J. M.	Rt. 1, Box 61, Warner, Oklahoma	3/16	30.0
		8/8	160.0

All of the above mineral interests are under lease to V-F Petroleum, except Opal Effie Fulton, who is under lease to Ashman & Hilliard.

EXHIBIT 3

July 18, 1967

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
APPL. C.	EXHIBIT NO. <u>43</u>
CASE NO.	<u>3633</u>

Mr. H. T. Hilliard
Ashmun & Hilliard
Suite 1120 - Mills Tower
220 Bush Street
San Francisco, California 94184

SW/4 Section 6
T-13-S, R-38-E N.M.P.M.
Lea County, New Mexico

Dear Mr. Hilliard:

Further to our telephone conversation of July 7, 1967, we are writing to explain our plans for this acreage and to request once again your cooperation toward getting a well drilled.

We have in hand oil and gas leases covering 13/16 mineral interest under the subject 160 acre tract which added to your Opal E. Fulton et vir lease, which covers a 3/16 mineral interest, accounts for all of the mineral interest. We plan to drill a 12,300' Devonian test well to be located approximately 1320' FWL and 2310' FSL of Section 6, with operations to commence as soon as we can resolve a satisfactory arrangement with you. We estimate this well will cost \$150,000 drilled and tested to the casing point or plugged and abandoned, whichever occurs, and completion costs should run an additional \$65,000, including tank battery.

Even though you stated in our telephone conversation that you did not wish to join in the drilling of this well, that you would not farm out or otherwise contribute toward the drilling of a well and furthermore that you did not wish to see a well drilled on this tract, we are submitting below several propositions for your consideration - we hope you will find one of these to be of interest.

- (1) You join in the drilling of this well, paying your 3/16 share of the costs thereof. We would enter into a standard operating agreement, Ross-Martin Form 610 with attached Accounting Schedule COPAS Form 1962. This agreement would name V-P Petroleum as Operator and the accounting schedule would provide for a combined fixed rate for overhead expense of \$100.00 per month per well to the depth of 12,500'.

July 18, 1967

-2-

H. T. Hilliard

- (2) You farm out to us your lease - we will drill and complete the well at our sole cost risk and expense, and you will retain, free and clear, 1/8 x 8/8 ORRI.
- (3) You sell your lease to us - we will give you your money back (\$50.00/acre for a total of \$1500.00) plus a 1/32 x 8/8 ORRI and will agree to drill the well at our sole cost, risk and expense.

We realize the location is not completely proven and that there is some risk involved - especially considering the depth and expense of the well but it will be apparent from performance history of the offset producing well that this tract should be drilled to prevent drainage. Our royalty owners are aware of this situation and are quite anxious to see this well drilled and we sincerely hope that you will find it to be to your best interest to either join us in this venture or to contribute toward same in one way or another.

If you have any suggestions as to your possible participation differing from those outlined above, we would be very happy to discuss them with you. Thank you for your consideration. We shall look forward to hearing from you at your earliest convenience.

Very truly yours,

V-F PETROLEUM

J. M. Fullinwider

JMF:bjs

INSTRUCTIONS TO DELIVERING EMPLOYEE	
<input type="checkbox"/> Show to whom, date, and address where delivered	<input type="checkbox"/> Deliver ONLY to addressee
(Additional charges required for these services)	
RECEIPT	
Received the numbered article described below.	
SIGNATURE OR NAME OF ADDRESSEE (Must always be filled in)	
<u>H. T. Hilliard</u>	
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY	
<u>Carol A. Busch</u>	
SHOW WHERE DELIVERED (only if requested)	

POST OFFICE DEPARTMENT OFFICIAL BUSINESS	
RECEIVED JUL 22 1967	
INSTRUCTIONS: Show name and address below and complete instructions on other side, where applicable. Moistened gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.	
NAME OF SENDER <u>V-F PETROLEUM</u>	
STREET AND NO. OR P.O. BOX <u>Box 300</u>	
POST OFFICE, STATE, AND ZIP CODE <u>MIDLAND, TEXAS 79701</u>	

EXHIBIT 4

July 21, 1967

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
<i>Apple</i>	EXHIBIT NO. <u># 4</u>
CASE NO.	<u>3633</u>

Mr. E. T. Hilliard
Ashmun & Hilliard
Suite 1120 - Mills Tower
220 Bush Street
San Francisco, California 94104

SW/4 Section 6
T-13-S, R-38-E N44W
Lea County, New Mexico

Dear Mr. Hilliard:

In our letter to you of July 18, 1967, we gave the location of our proposed 12,300' Devonian test well and we are writing to change the location slightly in order to comply with the regulations of the New Mexico Oil and Gas Commission. The location will be 990' TWL and 2310' FSL of Section 6, on the legal subdivision described as SW/4 Section 6, T-13-S, R-38-E N44W, Lea County, New Mexico.

The other suggestions for your participation outlined in our former letter are still offered for your consideration. We sincerely hope you will see your way clear to join us in this venture. If we may provide additional information please advise.

Very truly yours,

V-T PETROLEUM

J. M. Tullinwider

JMT:bjs

cc: Mr. Jason Kellahin
P. O. Box 1769
Santa Fe, New Mexico

EXHIBIT 5

PRODUCTION

BRONCO WEST DEVONIAN

Ashmun & Hilliard #1 Maxwell - Sec. 6, T-13-S, R-38-E, Lea Co., N.M.

1965	Monthly Oil Prod.	Cum	Monthly Gas Prod. MCF	Cum
Sep.	2,919			
Oct.	5,969		2,448	
Nov.	5,772		1,906	4,354
Dec.	5,826	20,486	4,354	
	20,486			
1966				
Jan.	5,227		1,710	
Feb.	5,580		1,883	
Mar.	5,753		2,319	
Apr.	4,958		2,154	
May	5,850		2,694	
June	5,791		2,537	
July	5,941		2,752	
Aug.	6,088		2,690	
Sep.	6,146		2,539	
Oct.	6,564		2,308	
Nov.	6,264		2,151	
Dec.	6,204	90,852	1,142	31,233
	70,366		26,879	
1967				
Jan	6,387		515	
Feb.	5,790		1,872	
Mar.	6,413		2,217	
April	6,106		2,212	
May	6,158	121,706	2,404	40,453

125,000 through July

Ave
GOR 400/1

Flowing, 469 gpc 475 psi @ about 218 BOPD

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
App. EXHIBIT NO. #5
CASE NO. 3633

20 YEARS BY MONTHS 358-215L
X 3 CYCLES
KREFFEL & ESSER CO. MADE IN U.S.A.

OIL PRODUCTION - BBLs

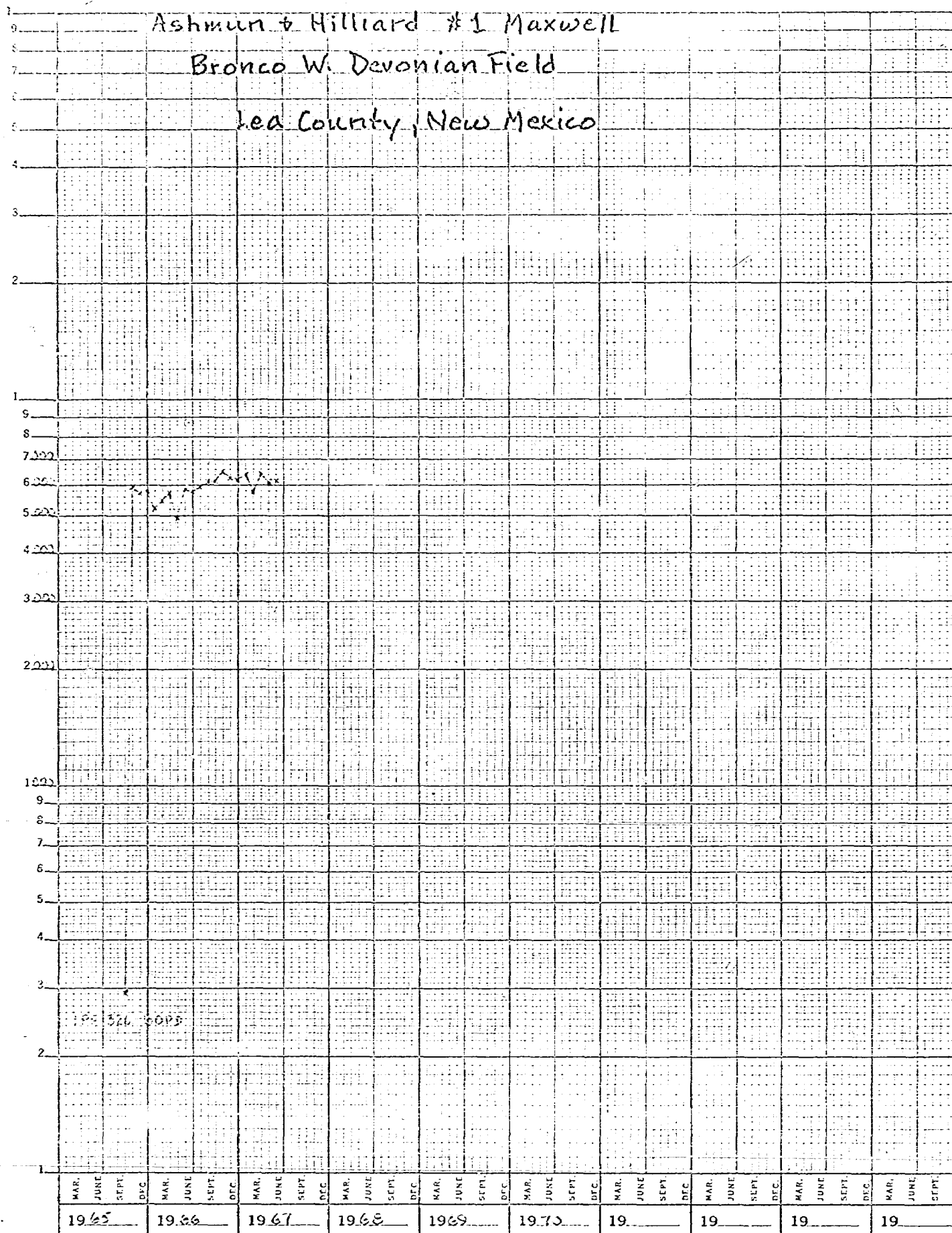


EXHIBIT 6

WELL COST ESTIMATE

Drilling & Testing

Operator V-F PETROLEUM Well Name Eura B. Anderson No. 1Area W. Bronco County Lea State New MexicoProjected Depth 12,300' Objective Devonian Expl. Devel. X W.O.

	ESTIMATED	ACTUAL
INTANGIBLE DRILLING COSTS		
Location: Survey & Stake	125.	
Roads, Pad & Clearing	1,200.	
Surface Damages	1,000.	
Drilling: Footage <u>12,300</u> ' @ \$ <u>6.84</u> /ft	84,132.	
Day Work W/Pipe <u>2</u> Days @ \$ <u>1200</u> /day	2,400.	
Day Work W/O Pipe <u>1</u> Days @ \$ <u>1100</u> /day	1,100.	
Cement: Surface Casing	656.	
Intermediate Casing	617.	
Cementing Services:		
Surface Casing	198.	
Intermediate Casing	405.	
Mud and Chemicals plus oil \$2000.	12,000.	
Coring Surf. csg. accessories	506.	
Testing <u>4</u> DST's @ \$1650	6,600.	
Logging: Mud Log from <u>9200</u> ' to <u>11,700</u> '	3,750.	
Electrical Surveys <u>1-ES</u> - Induc tion & Sonic	4,343.	
Temp. Survey	140.	
Geological <u>10</u> Days @ \$ <u>100</u> /day (plus expenses)	1,000.	
Engineering <u>5</u> Days @ \$ <u>100</u> /day (plus expenses)	500.	
Equipment-Rental- Intermediate Casing Accessories	284.	
Hauling		
Miscellaneous	4,000.	
TOTAL INTANGIBLE DRILLING COSTS	\$124,956.	
TANGIBLE DRILLING COSTS		
Surface Casing <u>400</u> ' of <u>13 3/8</u> " @ \$ <u>6.56</u> /ft	2,624.	
Intermediate Casing <u>4600</u> ' of <u>8 5/8</u> " @ \$ <u>3.05</u> /ft	14,030.	
Well Head	1,700.	
Miscellaneous	1,500.	
TOTAL TANGIBLE DRILLING COSTS	\$19,854.	
TOTAL DRILLING COSTS	\$144,810.	
INTANGIBLE ABANDONMENT COSTS		
Cement for Plugging <u>200</u> sx	464.	
Cementing Service	936.	
Location Clean-Up and Fence Work Rig Time - 1 Day	1,700.	
TOTAL INTANGIBLE ABANDONMENT COSTS	\$3,100.	
TOTAL DRY-HOLE COST	\$147,910	

live test
Pump, Workover
Misc. and Dev.

APPROVED:

COMPANY V-F PETROLEUM COMPANY By By Date 7-26-67 Date

WELL COST ESTIMATE
Completion & Equipment

Operator V-F PETROLEUM Well Name Eura B. Anderson No. 1
Area W. Bronco County Lea State New Mexico
Projected Depth 12,300' Objective Devonian Expl. Devel. X W.O. W.O.

	ESTIMATED	ACTUAL
<u>INTANGIBLE COMPLETION COSTS</u>		
Rotary Day Work _____ days @ \$ _____/day		
Pulling Unit Day Work <u>4</u> days @ \$ <u>625</u> /day	\$ 2,500	
Cement <u>300</u> sx	600	
Cementing Services	1,150	
Electrical Surveys	800	
Perforating	500	
Formation Treatment: Acid <u>8,000</u> gal.	3,000	
Frac _____		
Testing	600	
Hauling	1,000	
Engineering <u>8</u> days @ \$ <u>100</u> /day (plus expenses)	950	
Miscellaneous	2,000	
TOTAL INTANGIBLE COMPLETION COSTS	\$13,100	
<u>TANGIBLE COMPLETION COSTS</u>		
Production Casing <u>12,300</u> ' of <u>4 1/2</u> " @ \$ <u>1.80</u> /ft	\$22,140	
Production Casing _____ ' of _____ " @ \$ _____/ft		
Liner _____ ' of _____ " @ \$ _____/ft		
Tubing <u>12,300</u> ' of <u>2 3/8</u> " @ \$ <u>.81</u> /ft	9,963	
Sucker Rods _____ ' of _____ " @ \$ _____/ft		
Xmas Tree	5,000	
Pumping Unit		
Engine/Motor & Controls		
Separator		
Heater/Treater	2,500	
Flow Lines	1,000	
Tank Battery	6,000	
Installation Labor	1,000	
Miscellaneous	2,300	
TOTAL TANGIBLE COMPLETION COSTS	\$49,903	
TOTAL COMPLETION COSTS	\$63,003	
TOTAL COMPLETED WELL COSTS	\$207,813	

APPROVED:

COMPANY V-F PETROLEUM COMPANY _____

By _____ By _____

Date 7-26-67 Date _____