DOCKET NO. $\frac{9326}{}$

IN THE MATTER OF	1	NEW MEXICO
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DAVID FASKEN,	X	OIL CONSERVATION
	X	
OPERATOR	I	COMMISSION

APPLICATION FOR HEARING AND PERMIT TO DIRECTIONALLY DRILL

TO THE NEW MEXICO OIL CONSDERVATION COMMISSION:

Comes now David Fasken, whose business address is 608 First National Bank Building, Midland, Texas, and presents this his application for hearing and for permit to reenter, plug back and directionally drill David Fasken King-Davis Federal No. 2 Well in the Bluitt Bough "C" Pennsylvanian Field, 1980 feet from North line and 1980 feet from West line of Section 27, T-8-S, R-37-E, "NMPM, Roosevelt County, New Mexico, and in support of such application would respectfully show the following:

l.

Subject to the convenience of the Commission and only by way of expression of Operator's preference, Operator requests a hearing before an examiner of the Commission at Hobbs, New Mexico, at the earliest practicable date. Attached hereto marked Exhibit 1 for identification and here referred to and incorporated herein for all purposes will be found a cut from ownership and development map of Roosevelt County, New Mexico, prepared by Midland Map Company, Midland, Texas, and posted as to lease and fee changes to May 19, 1961 and as to well information to May 24, 1961 showing the lease in question and in addition including all of Township 8 South, Range 37 East, and other lands. The names and addresses of interested parties known to applicant and ascertained from said Exhibit 1 are as follows:

Skelly Oil Company, Skelly Building, P.O. Box 1650, Tulsa, Oklahoma, United States Geological Survey, United States Department of the Interior, 205 North Linam, Hobbs, New Mexico,

Sam Boren, 25-1/2 Highland Park Village, Dallas, Texas,

Carper Drilling Company, 200 Carper Building, Artesia, New Mexico,

Texaco, Inc., 707 Midland Savings and Loan Building, P.O. Box 3109, Midland, Texas,

Sunray-Mid Continent Oil Company, 1101 Wilco Building, Midland, Texas,

Carl B. King, c/o John Thomas, King, Warren & Dye, 501 Midland National Bank Building, P.O. Box 1505, Midland, Texas,

Roger H. Davis, Individually and as Partner in and Trustee for Davis Brothers, c/o John Thomas, King, Warren & Dye, 501 Midland National Bank Building, P.O. Box 1505, Midland, Texas,

The Ohio Oil Company, 9th Floor, Midland National Bank Building, P.O. Box 552, Midland, Texas.

Operator proposes to seek waivers from each of the above mentioned offset owners and operators and to deliver to each copies of this application.

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The name and general description of the common source of supply affected by the order sought is the Bough "C" section of the Pennsylvanian horizon in the Bluitt Field in Roosevelt County, New Mexico. In such connection reference is again made to Exhibit 1 being a land and development map of the area to be affected.

3.

The general nature of the order sought is an order permitting and authorizing David Fasken to reenter and recomplete the No. 2 Well on the David Fasken King-Davis Federal Lease consisting of the West Half (W/2) of Section 27, T-8-S, R-37-E, NMPM, Roosevelt County, New Mexico, in said Bluitt Bough "C" Pennsylvanian Field by withdrawing oil string casing therefrom above the free point believed to be at or about 6,800 feet from the surface, plugging said well so as to isolate the Bough "C" formation and also at and above the depth to which casing is recovered, side tracking the well by means of whipstock and redrilling same directionally in a predetermined direction and at a predetermined rate of deviation so as to recomplete same 300 feet West of the original bottom of hole in the Bough "C" formation.

David Fasken proposes to reenter said David Fasken King-Davis Federal No. 2 Well situated 1980 feet from North and West lines of Section 27, T-8-S, R-37-E, NMPM, Roosevelt County, New Mexico, in the Bluitt Bouch "C" Pennsylvanian Field and set cement plug to isolate the Bough "C" formation, cut off 5-1/2 inch oil string above free point believed to be at or about 6, 800 feet from the surface, set 300 sacks cement plug above cut off casing, set whipstock in such cement plug and reenter and redrill such well from such twe lve sidetracked point (whipstock) with a deviation of approximately six degrees (120) 10^{480} attained within 10^{480} feet below the sidetrack point. Operator then proposes to redrill such deviated well to total depth of approximately 9,500 feet in the Bough "C" formation in such manner as to bottom the hole 300 feet West of the surface location; that is, at a location 1980 feet from North line and 1680 feet from West line of said Section 27. Attached hereto marked Exhibit 2 for purposes of identification and here referred to and incorporated herein for all purposes is a cross section graph prepared by Houston Oil Field Material Company illustrating the vertical section of the proposed directionally drilled recompleted well.

Attached hereto marked Exhibit 3 for purposes of identification and here referred to and incorporated herein for all purposes is United States Geological Survey Form 9-331a together with its accompanying New Mexico Oil Conservation Commission Form C-128 (surveyor's plat) giving general description of the well location and casing program and stating generally that the well is intended to be directionally drilled in the manner stated hereinabove.

The desired order is sought in order to enable the Operator to overcome geological and mechanical difficulties encountered in the original drilling of said well. Said well was originally drilled to a depth of 9,500 feet in the Bough "C" formation where 5-1/2 inch oil string casing was set and cemented with 200 sacks of 50-50 posmix and 50 sacks with 45 gallons of Latex. Casing was run

and cemented February 3, 1961. Casing was perforated in the interval 9, 467 feet to 9, 490 feet opposite the Bough "C" section of the Pennsylvanian formation with 4 shots per foot. The following treatment procedures were carried out:

Acidized with 500 gallons of mud acid, breakdown pressure 6,000#, injection rate 3 bpm at 2,700# and on vacuum 5 mins. after being shutin; acidized with 2,500 gallons regular acid, maximum pressure 6,500#, injection rate 4 bpm at 4,000#, 10 min. shutin pressure 2,000#, on vacuum 20 mins. after being shutin; fracturized well with 40,000 gallons Penetrol (15% gelled acid) and 75 barrels of oil, maximum pressure 8,300#, average treating pressure 7,000#, final treating pressure 6,000#, average injection rate 3.2 bpm, shutin pressure after one hour 5,500#; and fracturized well with 150,000 gallons salt water, maximum pressure 6,800#, average injection rate 10 bpm, final treating pressure 6,400#, final injection rate 12 bpm.

After each of the above described treatments the well was produced by flowing, swabbing and pumping but with progressively deteriorating results following each treatment. After early acid treatments it appeared that the well would make approximately 50 bbls. per day but latest production has been 3 to 5 barrels of oil per day with intermittent periods of shutin for fluid buildup.

Based upon sample examination and electrical logs it was believed at the time this well was drilled into the Bough "C" formation where completion was attempted as above described that such formation consisted of lime with porosity impaired by anhydrite secondary deposition which was expected to be susceptible of fracture treatment. Based upon performance under fracture treatment and upon a core taken from David Fasken King-Davis Federal No. 4, 660 feet from South line and 1980 feet from West line of Section 27, T-8-S, R-37-E, it has subsequently been concluded that the Bough "C" formation in the No. 2 well probably consists of lime with porosity impaired by

both anhydrite and bentonitic shale. It is, accordingly, now believed that the loss of production resulting from fracture treatments above described is due to swelling of bentonitic shale in the porous spaces.

The calculated circumferential space affected by the treatments above described, assuming regular circular migration, affects a circular area around the well bore having a radius of 240 feet. The Operator, accordingly, proposes to sidetrack the well in a Westerly direction towards known productive areas a distance of 300 feet from the surface location and a distance of 360 from the Western boundary of the regular quarter quarter section in which same is situated, the Southeast Quarter of the Northwest Quarter (SE/4 of NW/4) of said Section 27. Attached hereto marked Exhibit 4 for purposes of identification and here referred to and incorporated herein for all purposes will be found a horizontal projection of such sidetracked hole showing the surface location of wellhead, the surrounding calculated area of contamination resulting from unsuccessful fracture treatments and the calculated position of sidetracked bottom of hole.

The following is a table of the deviation from vertical measurements taken during the drilling of this well by the totco method from commencement to the depth of 6, 800 feet, to-wit:

Deviation	Depth
1/4 ⁰	200
3/4 ^o	2220
1°	2600
3/4°	2800
3/4°	3475
1-1/2°	4230
3/4 ⁰	5133
10	5375
1/20	5990

Deviation	Depth
1-1/40	6150
1-1/2°	6460
1-1/40	6870

WHEREFORE, PREMISES CONSIDERED, your Petitioner David Fasken respectfully requests that a hearing be scheduled by the New Mexico Oil Conservation Commission at a time and place suitable to the convenience of the Commission and before an examiner or before the Commission, as the Commission's convenience may dictate, subject, however, to the preferences hereinabove expressed for hearing before an examiner at Hobbs, New Mexico, at the earliest practicable date, and that upon final consideration hereof your Petitioner be authorized to plug back said well, salvage casing therefrom, reenter and sidetrack same with whipstock and directionally redrill same from 6800 feet to the Bough "C" formation at approximately 9,500 feet so as to recomplete the hole in said formation at a bottom hole position 300 feet West of the original surface location.

Respectfully submitted.

WHITAKER & BROOKS 608 First National Bank Building Midland, Texas

By Richard & Bercha Richard S. Brooks

Attorneys for Applicant

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BEFORE	EXAMINER	UTZ
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CIL CONSERVATION COMMISSION

AP EXHIBIT NO. /

CASE NO. 2326

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

Budget	Bureau	No. 4	2-R888	4
Approv				•

(Feb. 1961)							
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Tin-ma 6-001 a

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Thirter	expites 12-31-00.
Land Office Sa	nta Fe
No. NM	02218
Unit	

NOTICE OF INTENTION TO DRILL		SUBSEQUE	NT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE P	LANS		NT REPORT OF SHOOTING OR AC	1
NOTICE OF INTENTION TO TEST WAT	ER SHUT-OFF	SUBSEQUE	NT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL	OR REPAIR WELL	SUBSEQUE	NT REPORT OF RE-DRILLING OR	REPAIR
NOTICE OF INTENTION TO SHOOT OF	R ACIDIZE	SUBSEQUE	NT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR A		SUPPLEME Notice	NTARY WELL HISTORY of intention to red	Irill
		(side tr	ack well 300 ft.	Vest >
			May 29	19
				, //
ell No. 2 is locat	ed 1980 ft. fro			
ell No. 2 is located in 14 NW/4 Sec. 27			nd1980 ft. from \(\bigve{\mathbb{K}} \)	
/4 NW/4 Sec. 27	8-S (Twp.)	37-E (Range)	nd 1980 ft. from (W) NMPM (Meridian)	line of sec. 27

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See detailed statement of proposed work attached.

I understand that this plan of work must receive approval in writing b	y the Geological Survey before operations may be commenced.
Company DAVID FASKEN	
Address 608 First National Bank Bldg.	DAVID FASKEN
Midland, Texas	By Richard S. Brooks
Telephone MU 2-5285	Richard S. Brooks Title Attorney

FORM C-128 Revised 5/1/57

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

DATID FASKIN Continue			S	ECTION A		
This Letter Section Township 8 South Name 37 East County Notual Footage Location of sell: 1800 test from the North line and 1980 feet from the North line and 1980 feet from the North line and 1980 feet from the North line North line North North line North No	-					{
The count of the country of the coun						
180 feet from the North line and 1980 feet from the West line from the Food feet from the Rough "O" 1901 Built Field Producing Formation Pool Built Field Pool Built Field Pool Pool		1	<u> </u>	1		• •
1980 feet from the North line and 1980 feet from the Nost line round Level Elev. Producing Formation Pool Blut Field Dedicated Acreage: 4001 Rough "O" Blut Field Dedicated Acreage: 4001 Rough "O" Blut Field Bold Rough "O" Roug			8 South	37 East	Hoo se	Yelt
Bough "C" Bough "C" Bough "C" But t Field Consolidated by communities of binacif or bin	-		North line and	1980 feet	from the West	line
Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO						
Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES	4001	Bo	such "C"	Bluit Fie	14	1
I hereby certify that the inform in SECTION A above is true applete to the best of my knowledge belief. DAVID FASKEN Name By Position Richard S. Br Attorney Company DAVID FASKEN Date May 29, 1961 I hereby certify that the well as shown on the plat in SECTION plotted from field notes of act surveys made by me or under a supervision, and that the same and correct to the best of my land belief. Date Surveys made by me or under a supervision, and that the same and correct to the best of my land belief.	another. (6 If the answe wise? YES. If the answe	5-3-29 (e) NMSA 1 r to question one is NO	935 Comp.) "'no," have the interests of If answer is "yes," Type of	of all the owners been conformed their respective inte	onsolidated by commu	, ,
GRAIN 1980' I hereby certify that the well shown on the plat in SECTION and SECTION plotted from field notes of act surveys made by me or under supervision, and that the sam and correct to the best of my and belief. Date Surveys	<u> </u>	- A		a W les Su		CERTIFICATION
I hereby certify that the well shown on the plat in SECTION plotted from field notes of act surveys made by me or under a supervision, and that the same and correct to the best of my and belief. Date Surveyed Onto her 5 and 6, 1	GRAI	NIII AIIIIA	,086		in SEC plete to belief. DAV Name By Position	ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN Control of the best of my knowledge as ID FASKEN
I hereby certify that the well is shown on the plat in SECTION plotted from field notes of act surveys made by me or under a supervision, and that the same and correct to the best of my is and belief. Date Surveyed Onto ber 5 and 6, 1	FIEL	0			Date	
N. 89° 59'W.	}				shown of plotted surveys supervited and cortain below the surveys supervited and surveys supervited supervited and surveys supervited and surveys supervited surveys supervited supe	from field notes of actual a made by me or under my sion, and that the same is treet to the best of my knowledge. The professional Engineer
		· · · · · · · · · · · · · · · · · · ·	80.00	, ,	1 1 9 -	/ 7/ •

Fasken King-Davis Federal Well No. 2 (the subject well) were impaired by secondary deposition of bentonitic shale and that treatments resulted in further impairment of porosity and permeability on account of swelling of shale. The ealculated area theoretically affected by such treatments, assuming uniform distribution of injected fluid, is presumed to be a circle about the well bore having a radius of 240 feet.

The operator, accordingly, proposes to set 40 sack cement plug at 9490 to 9390 (top of Pennsylvanian) to cut off casing at the free point at or about 6,800 feet from the surface and set 300 sack cement plug at the top of cutoff casing. The operator then proposes to set whipstock at the top of such 300 sack cement plug at a datum of approximately 6, 500 feet from the surface, to be determined according to fillup of cement as actually obtained and free point of casing as actually determined in salvage operations. Operator then proposes to drill sidetracked hole by means of such whipstock and from the point of whipstock setting so as to deviate hole in the interval of feet below sidetrack point and thence to directionally drill hole so as to bottom same at 9,500 feet from the surface and at a location 300 feet West of surface position; that is, at a location 1980 feet from North line and 1680 feet from West line of said Section 27 and 360 feet from West line of the SE/4 of the NE/4 of said Section 27. It is calculated that such revised bottom hole position will be outside the area affected by unsuccessful treatments but 360 feet from the nearest boundary of the quarter quarter section within which the well is located and well within the boundary lines of the lease.

Upon recompletion of said well as above described Operator proposes to rerun oil string casing in accordance with the original casing and cementing program hereinabove stated.

Respectfully submitted.

DAVID FASKEN

Richard S. Brooks, Attorney

608 First National Bank Building

Midland, Texas

FASKEN KING-DAVIS FEDERAL NO. 2

STATEMENT ACCOMPANYING NOTICE OF INTENTION TO REDRILL (SIDETRACK) WELL 300 FEET WEST

This well was drilled to the Bough "C" member of the Pennsylvanian section at a depth of 9, 500 feet from the surface with casing program as heretofore reported as follows:

Surface casing, 13-3/8 inch set at 400 feet with 300 sacks of 50-50 posmix with 4% gel and 100 sacks of neat cement. Cement circulated back to surface. Cement setting time 36 hours, initial shutin pressure 1800 p.s.i.g. and 30 min. shutin 1800 p.s.i.g.

Intermeidate casing, 8-5/8 inch set at 4, 400 feet with 1,650 sacks of 50-50 posmix containing 6% gel and 200 sacks of neat cement. Cement circulated. Cement setting time 36 hours. Initial shutin pressure 1800 p.s.i.g. and 30 min. shutin 1800 p.s.i.g.

Oil string casing, 5-1/2 inch set at 9,500 feet with 200 sacks of 50-50 posmix and 50 sacks of neat cement containing 45 gallons Latex. Initial shutin pressure 1800 p.s.i.g. and 24 hours shutin pressure 1800 p.s.i.g. Top of cement per temperature survey and calculated free point 6,800 feet from the surface.

Weights and grades of oil string casing are as follows:

Size	Weight and Grade	$\underline{ ext{Depth}}$	Footage
5-1/2	17# J- 55 LT&C	0 to 1470	1470
5-1/2	15.5# J-55	1470 to 7172	5702
5-1/2	17# J-55	7172 to 9073	1901
5-1/2	17# N-80	9073 to 9500	427

Oil string casing was perforated for production in the interval 9, 467 feet to 9, 490 with 4 shots per foot.

Various acid and fracture treatments were carried out as detailed in the accompanying copy of application to New Mexico Oil Conservation Commission for permit to sidetrack hole which is here referred to and incorporated herein for all purposes. Production tests were conducted by flowing, swabbing and pumping at various intervals between the several treatments with progressively deteriorating results. Based upon cores taken from Fasken King-Davis Federal No. 4 Well on the same lease located 1980 feet from West line and 660 feet from South line of Section 27, T-8-S, R-37-E, it has been concluded that porosity and permeability in the Bough "C" section of the Pennsylvanian formation in