CASE 4087: Application of SOLAR OIL COMPANY FOR A DUAL COMPLETION LEA COUNTY, NEW MEXICO.

Case Number. 408

Application Transcripts.

Small Exhibits

1120 SIMMS BIDG. . P. O. BOX 1092 . PHONE 243-6691 . AISUQUERQUE, NEW MEXICO

Santa Fe, New Mexico

March 26, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Solar Oil)
Company for a dual comple-)
tion, Lea County, New)
Mexico.

Case No. 4087

BEFORE: Elvis A. Utz, Examiner



TRANSCRIPT OF HEARING

MR. UTZ: Case 4087.

MR. HATCH: Case 4087, application of Solar Oil Company for a dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, appearing for the applicant, and I have one witness I would like to have sworn.

(Witness sworn.)

(Whereupon, Applicant's Exhibits Numbers 1 and 2, were marked for identification.)

DAROYL R. CURRY

called as a witness by the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q State your name, please.
- A I am Daroyl R. Curry.
- MR. UTZ: Are there any other appearances? You may proceed.
- Q Mr. Curry, by whom are you employed? And, in what position?
- A I am a vice president of Solar Oil Company, and a petroleum engineer.
- Q Have you ever testified before the Oil Conservation Commission of New Mexico?

- A Yes, I have.
- Q And your qualifications as a petroleum engineer are a matter of record?

A Yes.

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

MR. UTZ: Yes, they are.

- Q Mr. Curry, are you familiar with the application of Solar Oil Company in Case No. 4087?
 - A Yes, I am.
 - Q What is proposed by Solar Oil Company in this case?
- A Solar Oil Company proposes to seek approval for the dual completion in a conventional manner of its McCallister

 No. 1, an oil completion producing from the Drinkard and Abo

 Formations, on a location in Unit C, Section 7, Township 22

 South, Range 38 East, Lea County, New Mexico.
- Q Have there been dual completions to produce from these two horizons within one mile of this well?
- A As of the first of 1968, the Commission proration schedule did not reflect any completions producing at this time.
- Q It was indicated to you that that required a hearing, and could not be approved on administrative action of

the Commission, is that correct?

- A That's correct.
- Q Now, briefly, referring to Exhibit Number 1, would you outline the history of this well?

A The Solar Oil Company McCallister No. 1 was sputted on 14 August, 1968, and was drilled to a total depth of 7,300 feet. It was cased to total depth with seven and five-eighths OD casing, and was cemented with 835 sacks. It was then perforated in the Abo Formation from 7,240 feet to 6,924 feet. The Abo was then acidized with 5,000 gallons, and fracture-treated with 22,000 of brine water, plus six tenths per gallon of sand.

The Abo Formation was then isolated with the retrievable bridge plug, and the Drinkard Formation was perforated from 6,398 feet to 6,491 feet. The Drinkard Formation was acidized with 4,750 gallons, and was fracture-treated with 80,000 of yellow brine, plus nine tenths of a pound per gallon of sand.

The well was cleaned out, and an Otus Permatrieve retrievable production packer was set at 6,911 feet. Dual two and three-eighth OD tubing strings were then run, and production was independently effected from the Abo and Drinkard Formations.

I submit as an exhibit in this hearing, photocopies of the diagrammatic sketch showing multiple completion information, termed Exhibit 1.

Q I think hat is reversed.

A Termed Exhibit 2, New Mexico Oil Conservation

Commission, southeast New Mexico, packer leakage test. These exhibits reflect that conventional multiple completion practices which have previously been acceptable to the Commission, have been utilized in the subject well, and that these practices have been effective in segregating the fluids in the two formations, thereby constituting no hazard to conservation.

Q Do you have any information on the pressures in the two zones?

A Both zones are pumping. I do have the init;al potential form, and the packer leakage test submitted as an exhibit. It reflects that the Flow Test No. 1, the non-producing completion, had a beginning pressure of 380 psi, and had an ending pressure of 380 psi. The producing completion, being the Abo Formation, had 40 psi at the start of the test, and had 20 psi at the conclusion. This was a 23-hour test.

Q You did not encounter pressures in these two zones that would cause any problems with the packer, is that correct?

A No, they are well within the mechanical capabilities

of the equipment.

Q Do you have any information on the fluid characteristics of the two zones?

A I don't have any test here, but the correlation with offset production that we produced in this area, would indicate that the fluids are relatively non-corresive.

Q Do you know what the gravities are?

A The gravity on the Abo Formation is 41.2, and the gravity on the Drinkard Formation is 39.8.

Q In your opinion, will the dual completion of this well as shown on your Exhibit Number 2, adequately protect the two producing horizons?

A Yes, it will.

Q And it is a type of dual completion which has been approved in other cases by this Commission, is it not?

A Yes.

Q Was Exhibit 2 prepared by you or under your supervision?

A It was prepared under my supervision.

Q And Exhibit Number 1 is a copy of the Commission's packer leakage test?

A That's correct.

MR. KELLAHIN: At this time, I would like to offer

Exhibits 1 and 2.

MR. UTZ: Without objection, Exhibits 1 and 2 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits Numbers 1 and 2 were admitted into evidence.)

MR. KELLAHIN: That is all I have on direct examination.

CROSS EXAMINATION

BY MR. UTZ:

- Q Mr. Curry, can you tell me what the cement program was on this completion?
- A The eight and five-eighths, seven and five-eighths casing cemented with a total of 835 sacks.
 - Q About what depth would that be?
- A I'm sorry, I don't have that information immediately available. This was a cementing program approved by the Commission.
 - Q Well, it would be above the Drinkard, right?
- A Correct. It would be probably 1,500, 2,000 feet above that.
 - Q What was the surface casing program?
- A The surface casing was approximately 850 feet of ten and three-quarters, which was circulated to the surface.

- Q You had just the two strings?
- A That's correct.
- Q I note on your Flow Test No. 2 on the packer leakage form, that you had a decrease of 30 pounds on the shut-in zone. Can you explain what that might have been?
- A This is producing the upper completion, and there is some temperature difference and fluid expansion, contraction in the parallel tubing strings, and the instruments used on this test were, I believe, zero to 2,000 psi, dual pin recording pressure gauges, calibrated by dead weight test, and possibly the meter correction test.

MR. UTZ: Any other questions of the witness? You may be excused. Any other statements?

The case will be taken under advisement.

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WITNESS	
DAROYL R. CURRY	_
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EXHIBITS	MARKED	ADMITTED IN EVIDENCE
Applicant's Exhibits Numbers 1 and 2	2	7

STATE OF NEW MEXICO)	
)	ss.
COUNTY OF BERNALILLO)	

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

June 1 Julie

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87801

April 1, 1969

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico	Re:	Case NoOrder NoApplicant:	4087 R-3719 sil Company
Dear Sir:			
Enclosed herewith are two copi sion order recently entered in			erenced Commis-
2	1. h. A. L. 1	Contex, Jr. ary-Director	Ži,
ALP/ir			
Copy of order also sent to:			
Hobbs OCC x			
Artesia OCC			
Aztec OCC			
Other		-	

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE No. 4087 Order No. R-3719

APPLICATION OF SOLAR CIL COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 26, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this lst day of April, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Solar Oil Company, seeks authority to complate its McCallister Well No. 1, located in Unit C of Section 7, Township 22 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from an undesignated Drinkard oil pool and an undesignated Abo oil pool through parallel strings of 2 3/8-inch tubing, with separation of the zones by a packer set at approximately 6911 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

-2-CASE No. 4087 Order No. R-3719

IT IS THEREFORE ORDERED:

(1) That the applicant, Solar Oil Company, is hereby authorized to complete its McCallister Well No. 1, located in Unit C of Section 7, Township 22 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from an undesignated Drinkard oil pool and an undesignated Abo oil pool through parallel strings of 2 3/8-inch tubing, with separation of the zones by a packer set at approximately 6911 feet;

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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the undesignated Abo oil pool.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

esr/

Case 40 87

Heard 2-26-69

Cec. 3-27-69.

Showly Solar a lud complition

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all sparse. 6811. a conventional

completion.

Thurst.

OIL CONSERVATION COMMISSION

I DISTRICT

Jan 1657

OIL CONSERVATION COMMISSION BOX 871	DATE_	March 21, 1969
SANTA FE, NEW MEXICO	Re:	Proposed NSP Proposed Triple Proposed NSL Proposed NFO Proposed DC X
Gentlemen:		
I have examined the application dated	2	/24/69
for the 30lar Oil Co. McCallister #1-C Operator Lease and Well and my recommendations are as follows:	No.	7-22-38 S-T-R
0.KJ.D.R.	····	
0.KJ.W.R.		
Yours very ti	ruly,	

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 26, 1969

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 4078: Application of J. Gregory Merrion for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above—styled cause, seeks authority to commingle production from the Devils Fork-Gallup Pool and an undesignated Mesaverde oil pool in the well-bore of his NCRA State Well No. 3 located in Unit L of Section 16, Township 24 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 4079: Application of Robert B. Holt for the creation of a new pool, assignment of a discovery allowable, and the promulgation of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Middle Pennsylvanian oil pool for his Aztec State Well No. 2 located in Unit A of Section 26, Township 13 South, Range 32 East, Lea County, New Mexico, and for the assignment of an oil discovery allowable in the amount of approximately 48,715 barrels to said well. Applicant further seeks the promulgation of special pool rules for said pool, including a provision for 160-acre proration units and the assignment of 80-acre allowables.

CASE 3975: (Reopened)

In the matter of Case No. 3975 being reopened pursuant to the provisions of Order No. R-3618, which order established 80-acre spacing units for the East Bluitt-San Andres Pool, Roosevelt County, New Mexico, for a period of approximately two months. All interested parties may appear and present evidence as to whether the subject area is indeed a separate common source of supply or an extension of the Bluitt-San Andres Gas Pool. Further, in the event said East Bluitt-San Andres Pool is found to be an extension of said Bluitt-San Andres Gas Pool, the Commission will consider the amendment of the Special Rules and Regulations governing the Bluitt-San Andres Gas Pool to provide for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals from the gas cap and oil rim.

CASE 4080: Application of Monsanto Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Black River Unit Area comprising 14,961.23 acres, more or less, of State, Federal and Fee lands

-2Docket No. 9-69
Examiner Hearing - March 26, 1969

CASE 4080 - Continued

in Townships 25 and 26 South, Ranges 23 and 24 East, Eddy County, New Meximo.

- CASE 4081: Application of Curtis Mankamer for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Brushy Draw Deep Unit Area comprising 9,672.53 acres, more or less, of State and Federal lands in Township 26 South, Ranges 29 and 30 East, Eddy County, New Mexico.
- CASE 4082: Application of Sam D. Ares for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject produced salt water into the Yates-Seven Rivers formation in the open-hole interval from approximately 3358 to 3495 feet in his Arnott Ramsey "A" Well No. 3, located 660 feet from the North and West lines of Section 2, Township 25 South, Range 36 East, Jalmat Yates Seven Rivers Pool, Lea County, New Mexico.
- CASE 4083: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Penrose Skelly Pool and the Paddock Pool in the well-bore of its Eunice King Well No. 7 located in Unit G of Section 28, Township 21 South, Range 37 East, Lea County, New Mexico, with the provision that no more than one allowable will be produced from said well.
- CASE 4084: Application of Olen F. Featherstone for the creation of a new pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfdamp oil pool for his Cabot State Well No. 1 located in the NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, Lea County, New Mexico, and for the promulgation of special rules therefor including a provision for 160-acre spacing and proration units and the assignment of 80-acre allowables.
- CASE 4085: Application of Tamarack Petroleum Corporation, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 4948 feet to 5043 feet in its Cabot 23 State Well No. 2 located in Unit C of Section 23, Township 19 South, Range 35 East, Fearl-Queen Fool, Lea County, New Mexico.

-3Docket No. 9-69
Examiner Hearing - March 16, 1969

CASE 4086: Application of Gancon Och Company for a dual completion and salt water disposable her Departy, New Mexico. Applicant, in the above-styled caused seeks authority to dually complete its CSA Federal Well No. 1 he atted in Unit D of Section 29, Township 26 South, Range 37 Hast. Scanborough Yates-Seven Rivers Pool, bea dounty, New Mexico. in such a manner as to permit production of oil from the Fates formation and the disposal of produced salt water into the Seven Rivers formation through parallel strings of tubing.

CASE 4087: Application of Solar Oth Company for a dual completion, Lea County, New Maxico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its McCallister Well No. 1 located in Unit C of Section 7, Township 22 South, Range 38 East, Lea County. New Maxico, to produce oil from undesignated Drinkard and Abo oil pools through parallel strings of tubing.

CASE 4071: (Continued from the March 19, 1969, Regular Hearing)
Application of W. J. Sivley for a dual completion and salt
water disposal, Lex County, New Mexico. Applicant, in the
above-styled cause, seeks authority to dually complete his
Federal Silver Well No. 4 licated in the SW/4 SE/4 of Section
28, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers
Pool, in such a manner as to permit production of oil from
the Yates-Seven Rivers formations and the disposal of produced salt water into the Newer Seven Rivers formation.

CASE 4088: Application of Paul M. Mershon, Cr., for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation suderlying Section 21. Township 22 South, Range 23 East, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled at an unorthodox gas well location 990 feet from the North and East lines of said Section 21, and within one mile of the Indian Basin-Upper Pennsylvanian Gas Fool. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4089: Application of Paul M. Mershon, Or., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the special rules and regulations governing the Indian Basin-Upper Pennsylvanian Gas Pool to permit the drilling of a well at an unorthodox gas well location 990 feat from the North and East lines of Section

-4Docket No. 9-69
Examiner Hearing - March 26, 1969

21, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico.

CASE 4090: Application of Getty Oil Company for an exception to Commission Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the potash-oil area casing and cementing rules as set forth in Commission Order No. R-111-A. Applicant proposes to re-enter and deepen approximately 3500 feet in the Yates formation four wells located in Sections 19 and 30 of Township 20 South, Range 34 East, Lea County, New Mexico, in such a manner as to eliminate the necessity of running the salt protection string provided the production string would be cemented to the surface.

CASE 4091: Application of Union Oil Company of California for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Elliott Federal Well No. 1 located in Unit O of Section 27, Township 11 South, Range 38 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Field Ranch-Wolfcamp Pool and the disposal of produced salt water into the San Andres, Glorieta, Blinebry, Tubb and Abo formations in the open-hole interval from approximately 4458 feet to 8050 feet.

NE EXICO OLL CONSERVATION CONCISS

SOUTHEAST NEW MENICO PACKER LEAKAGE TEST

Operator	Leas		Wel	
SOLAR OIL COMPANY Location Unit Sec	Trup	McCallister Rge		
of Well 7	T22\$	R3UE	Lea	
Name of Reservoir or Pool	Type of Prod (011 or Gas)	Hathod of Prod Flow, Art Lift	Prod. Medium (Tog or Csg)	Choke Size
Upper Compl Drinkard	011	Pumping	Yubing	Ореп
Lower Compl Abo	011	Pumping	Yubing	0pen
	FLON TRS	r NO. 1		
Both zones shut-in at (hour, date):	2:00 P.M.	12-10-68		
Well opened at (hour, date): 2:00 P.	12-	11-68	Upper Coupletion	Lower Completion
Indicate ty (X) the zone producing.		,	• • • • • • • • • • • • • • • • • • •	X
Pressure at beginning of test			380	40
Stabilized? (Yes or No)	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	····· Yes	Yes
Maximum pressure during test	******		380	40
Minimum pressure during test			380	20
Pressure at conclusion of test		• • • • • • • • • • • • • • • • • • •	380	20
Pressure change during test (Maximum	minus Minimum)		20
Was pressure change an increase or a	deorease?	Total Ti	ra On	Decrease
Well closed at (hour, date): 1:00 P Oil Production During Test: 78 bbls: Grav. 41	Gas Pr	Producti		
Remarks				
,	FLOW TEST	NO. 2		
Well opened at (hour, date): 3;00	P.M. 12-1	4-68	Upper Completion	Lower Completion
Indicate by (X) the zone producing	¥•••••		x	,
Pressure at beginning of test			120	590
Stabilized? (Yes or No)	********		Yes	Yes
Maximum pressure during test		*********	120	620
Minimum pressure during test		* * * * * * * * * * * * * * * * * * * *	10	590
Pressure at conclusion of test	• • • • • • • • • • • • •	•••••	10	620
Pressure change during test (Maximum	minus Minimum)	110	30
Was pressure change an increase or a	decrease?	Total time	e on	Increas
Well closed at (hour, date) 6:30 Oil Production During Test: 42 bbls: Grav.	Ges Pro	68 Production	n_ 27} hrs.	
Remarks	,			
·				
I hereby cortify that the information	n hersin conta	ined is true and o	complete to the be	st of my

BEFORE EXAMINER UTZ
OIL CONSERVATION CLAMISSION
EXHIBIT NO. ____
CASE NO. ____4087

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•			Otis Permatrieve	
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Name: Abo Completion this	1	11.	Perforated: 7240'-6924 fe	et
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•		.	Casing set at 73 Total well depth: 73	00 ieet 300 feet
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DATE: January 31, 1	969 OPERAT	OR: SOL	AR OIL COMPANY LEASE:	McCallister
PCCL: Drinkard & A	bo .	_ COUNT	y: Lea WELL NO	. 1
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·	1	· ~ (_ 5\) 	- FAMMINER UTZ	
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• • • • • •	·		EXHIBIT NO. 2	. •
•	in the contract of	NO.		•

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

.'otm (5+167 5+1+5;

			w	Case 4087
SOLAR OIL COMPANY		Lea		January 31, 1969
P. O. BOX 5596, Midlan	nd, Texas 7970	: · · · ·	allister	Well No.
Lo Has cut Secti		Tewnship		Range
c. vei. C 6	60	22-S		38-E
 Has the New Mexico Oil Conservation zones within one mile of the subject w If answer is yes, identify one such ins 	ell? YES	NO X	•	of a well in these same pools or in the same
3. The following facts are submitted:	Upper Zone		Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Undesignated	Drinkard		Undesignated Abo
b. Top and Bottom of	6841' ~			6924' -
Pay Section	6859'			7240'
(Perforations)				7240
c. Type of production (Oil or Gas)	Oil			Oil
d. Method of Production	Pump			Pump
(Flowing or Artificial Lift) 4. The following are attached. (Please cl				Tunp
tors have been furnish	ned copies of the apposed or other acceptal chilog is not available on which this well is Rankin Hwy. M	dication.* ble log with tops e at the time appl located together idland, Texa	and bottoms of prodication is filed it sh with their correct mai	ien thereof, evidence that said offset opera- ucing zones and intervals of perforation in- all be submitted as provided by Rule 112-A.) ling address.
. Were all operators listed in Item 5 ab date of such notification CERTIFICATE: 1, the undersigned, s		<u> </u>		S_X_NO If answer is yes, give
under my supervision and direction and the	mpany), and that I amend the facts stated the	m authorized by s erein are true, co	aid company to make orrect and complete to	this report; and that this report was prepared the best of my knowledge. DOCKET MAILED 3-14-69 Signature

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

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

Title__

	yn, haetheeth Nilei		AST NEW MEXICO PA	CKER LEAKAGE TEST	(6. c. 4	187
Operator	SOLAR OIL	COMPANY	Leas	e McCallister	We.	1
Location of Well	Unit	Sec 7	Twp T225	Rge R38E	County Lea	
	Name of Res	erveir or Pool	Type of Prod	Method of Prod Flow, Art Lift	Frod. Medium (Tbg or Csg)	Choke Size
	rinkard		011	Pumping	Tubing	Open
Lower Compl A	bo		011	Pumping	Tubing	Open
			FLOW TEST	NO. 1		
Roth zone	es shut-in a	t. (hour. date)	: 2:00 P.M.	12-10-68		
				11-68	Upper Completion	Lower Completion
						X
				• • • • • • • • • • • • • • •		
	_			•••••		40
itabiliz:	ed? (Yes or	No)			···· Yes	Yes
laximum j	pressure dur	ing test	••••••		380	40
inimum :	pressure dur	ing test			380	20
ressure	at conclusi	on of test		• • • • • • • • • • • • • • • • • • • •	380	20
Pressure	change duri	ng test (Maxim	num minus Minimum)	0	20
las pres	sure change	an in cr ease or	a decrease?			Decrease
Vell clo	sed at (hour	, date): <u> </u>	D P.M. 12-12-68	Total Ti Producti	me On on	23 hr.
Oil Prod	uc tion	 -		oduction	MCF; GOR 1380)
Well one	ned at (hour	. date): 3:	FLOW TEST	NO. 2 4-68	Upper Completion	Lower Completion
						-
						590
	_	_				Yes
		•				
		•				620
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Pressure	at conclusi	on of test	• • • • • • • • • • • • • • • • • • • •		10	620
Pressure	change duri	ng test (Maxim	num minus Minimum)	110	30
Nas pres	sure change	an increase or	r a decrease?	Total tim		e <u>Increas</u>
Dil P r od	uc tion		Gas Pro	8 Productio	n 27½ hrs.	
					HOP, GOR 1740	
wemat.kg						
I hereby knowledg		t the informat	tion herein conta	ined is true and c	-	st of my
Approved			19	Operator SOLAR		
New Mex	i c o Oil Cons	ervation Commi	iss io n	Ву	Smith	
Ву				Title Product	ion Clork	

Title Production Clerk

Date January 31, 1969

- I tracker inverse test of any termination as a mantiply completed were about some layer after a training the action of the action and annually therefore as presented by the order authorizing the scitiple empletion. Some region which are no examined 60 all moltiple cappletions within seven days following errors into a set for observation or fine time treatment, and whenever reached work has been done on a well during which the product or the latter one bear tistuited. Tests shall also be taken at any time that company of the latter of the company of the complete or the requested by the formission.
- 2 of 100st 2, hours prior to the common energy of my packer leakage test, though the stall notify the commission in writing of the exact time the last is in the appropriate of content operators shall also be so notified.
- controlled to the first shell common e when both zones of the dual completion are stable for pressure stabilization. Both zones shall remain what is noted the well-boad pressure in each has stabilized and for a minimum of two house therefore, provided however, that they need not remain about in some time of house.
- 4 For Flow Test bo. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test small be continued until the flowing wellhead pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

- 5. Following completion of flow test No. in the will shall again to shall be in accordance with Datagraph 3 above
- 6. How test No. 2 shall be conducted even the electric like was to be addeduting flow test No. 1. Procedure for like likes No. 2 to to be an experience to the electric like making shorters while the previously sharters are profited.
- 7. All pressures, throughout the entire test shell be continued measured and recorded with recording pressure gauges. The access which must be checked with a deadleight rester at least twiceless to beginning and once at the rail of each flow test.
- 8. The results of the above-described tests should be fitted in the late within 15 days after completion of the test in the color of the fitted in the late within 15 days after completion of the test in the color of the fitted in the appropriate district Office of the New West in the conference is a mission on Noutheast New Mexico increase the fitted for conference in the together with the original pressure rescribing cause charts with a big of deadweight pressures which were taken initiated thereon. In the big of the aforecast charts, the operation and interest at the above of each zone of each test, initiating thereon all pressure charges which may be reflected by the gauge charts as well as all deadweight pressure readings which were taken. If the pressure curve is submitted, the original chart must be persanently filled in the operator office. Form C-116 shall also accompany the backer texage fast for when the test period coincides with a gissori ratio test period.

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Top at 6483 feet Name: Drinkard Completion this Zone:		Perforated: 685	9'-6491'feet
Bottom at 6881 fee	e t	Otis Per	nded at 6837 feet matrieve set at 6911 feet
· Top at 6881 Feet		2-3/8" tubing	landed at 7108 feet
Name: Abo Completion this Zone: Bottom at 7300 fee	:E	Perforated:7240	'-6924 f eet
		Casing Total well P.B.T.I	set at 7300 feet depth: 7300 feet color feet
DATE: <u>January 31, 1969</u>	OPERATOR: SOLAF	OIL COMPANY	LEASE: McCallister
PCOL: Drinkard & Abo	COUNTY:	Lea	WELL NO.: 1

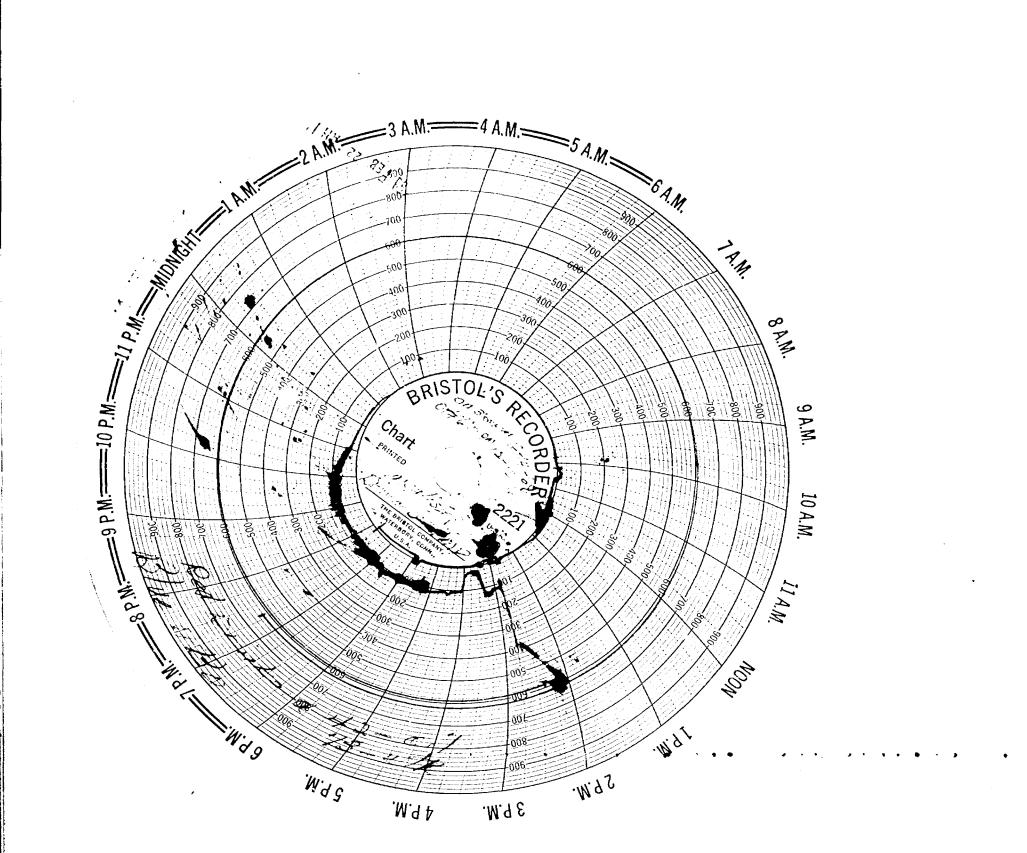
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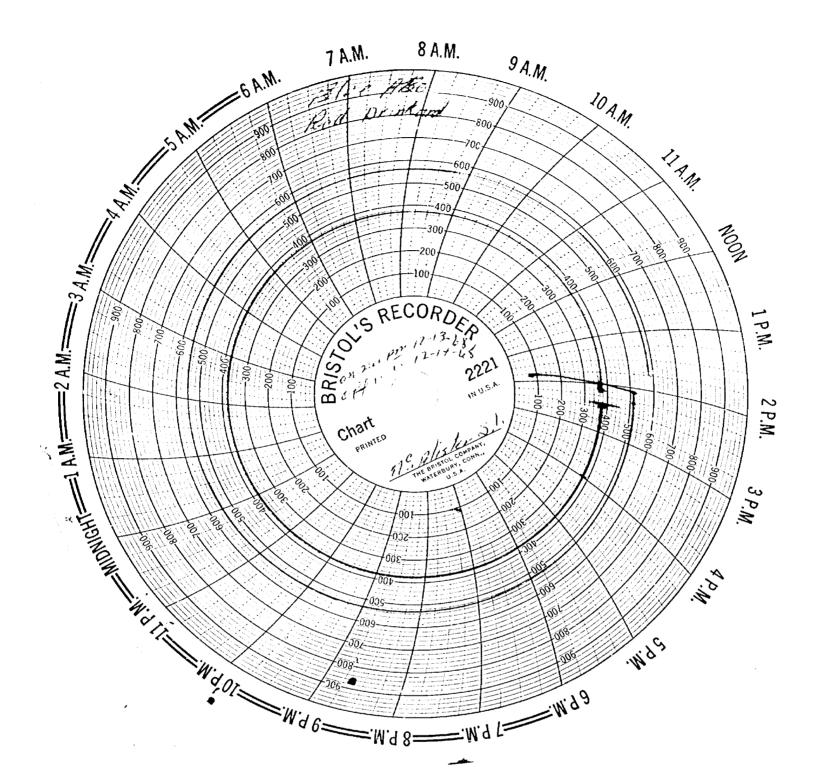
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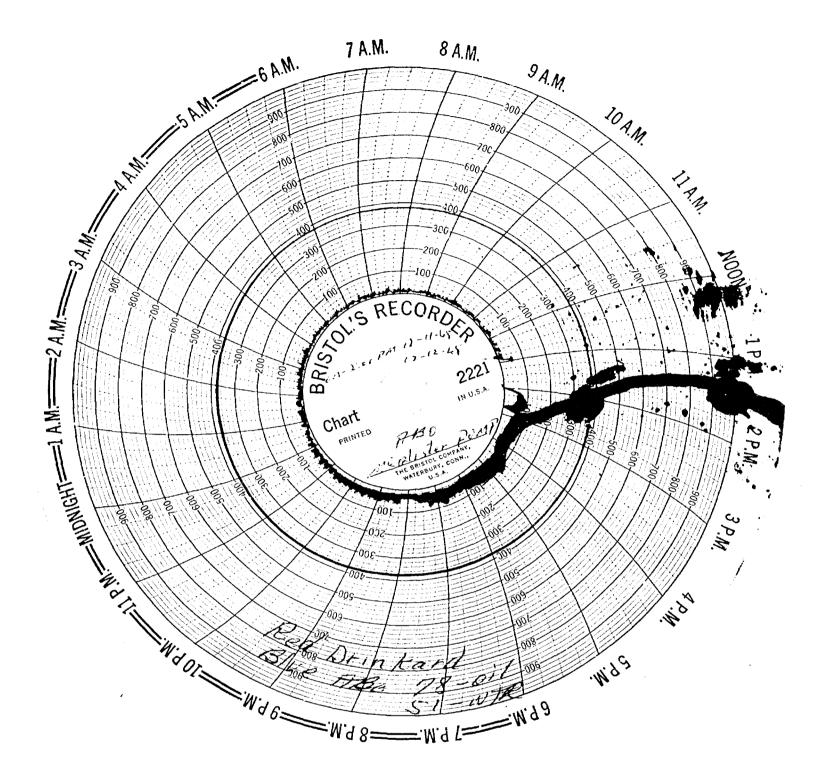
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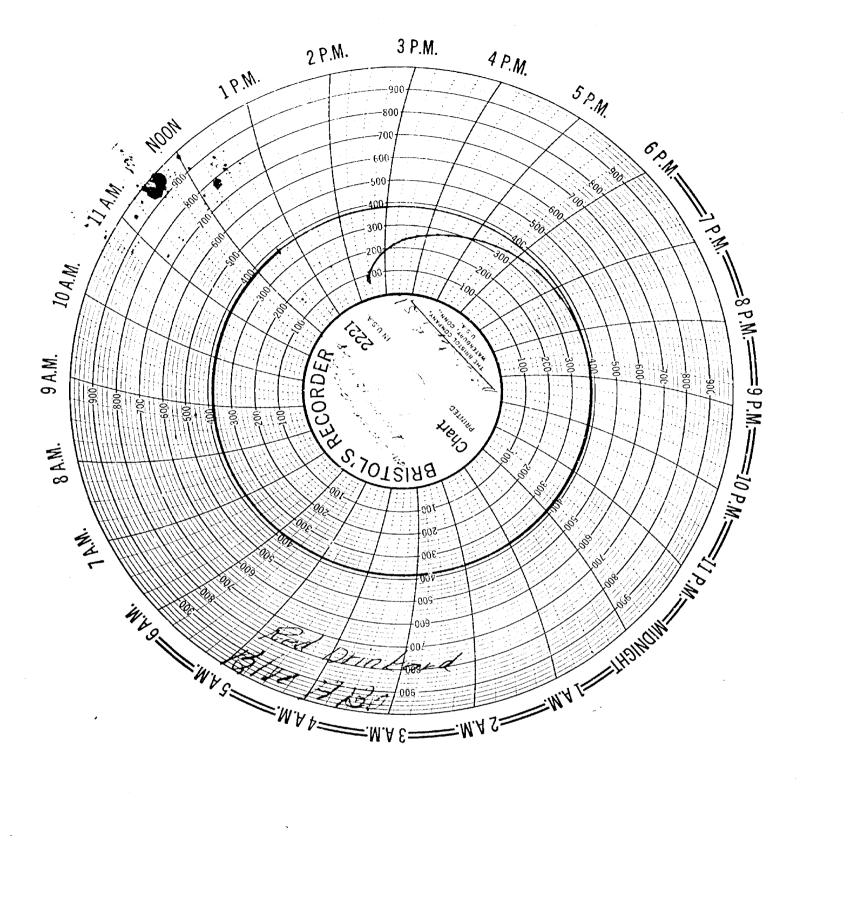
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Sec. 6. T-22-S, R-37-E:	O PROPOSED LOCATION
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Sec. 7, T-22-S, R- 37 -E:	
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GMH/esr

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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:

OB-	A Dec	CASE No. 4087
11		Order No. R-37/
		· · · · · · · · · · · · · · · · · · ·
APPLICATION OF	SOLAR OIL COMPANY	. · · · · · · · · · · · · · · · · · · ·
FOR A DUAL NEW MEXICO.	COMPLETION, LEA	COUNTY,
	ORDER OF THE COMM	<u>IISSION</u>
BY THE COMMISSION	<u>on</u> :	
	e came on for hearing a	
March 26 , 1 Elvis A. Utz	.96 <u>9</u> , at Santa Fe. New	Mexico, before Examiner
LLVIS A. ULZ	•	
a quorum being p	present, having conside	red the testimony, the rece er, and being fully advised
in the premises,		
in the premises, $FINDS$:		
FINDS: (1) That	due public notice havi	ng been given as required bef this cause and the subject
FINDS: (1) That law, the Commiss matter thereof.	due public notice havi	of this cause and the subject
FINDS: (1) That law, the Commiss matter thereof. (2) That	due public notice havi sion has jurisdiction o	of this cause and the subject
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FINDS: (1) That law, the Commiss matter thereof. (2) That seeks authority Well No. 1 22 South Ra xNorthx Mexico, as a	due public notice havision has jurisdiction of the applicant, Solton complete its McClocated in Unit Clarge 38 East, NMPM, Mark	of this cause and the subject ar Oil Company Callister of Section7, Township
FINDS: (1) That law, the Commiss matter thereof. (2) That seeks authority Well No. 1 22 South Rankovokk Mexico, as a from	due public notice havision has jurisdiction of the applicant, Solto complete its McColocated in Unit Colocated in Unit Colocated in Unit Colocated Completion (completion to completion to completion to completion to completion	ar Oil Company Callister of Section
FINDS: (1) That law, the Commiss matter thereof. (2) That seeks authority Well No. 1 22 South Ra xNoxxix Mexico, as a from from	due public notice havision has jurisdiction of the applicant, Soloto complete its McClocated in Unit C ange 38 East, NMPM, NMARK (completion to completion to complete its NMPM, NMARK (completion to completion to complete its NMPM, NMARK (completion to the completion to the completi	ef this cause and the subject of Company Callister of Section
FINDS: (1) That law, the Commiss matter thereof. (2) That seeks authority Well No. 1 22 South Ra xNoxxxx Mexico, as a from from from from from signated	due public notice havision has jurisdiction of the applicant, Solton complete its McClocated in Unit Clocated in Unit Clocated in Unit Clocated Completion for the co	ar Oil Company Callister of Section7, Township Lea County, New conventional) oi conventional) oi conventional xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Solar Oil Company
is hereby authorized to complete its McCallister
Well No. 1 , located in Unit C of Section 7 , Township
Mexico, as a <u>dual</u> completion (conventional) oil (conventional) (conventional) oil (conventional) (conventional)
from xbarxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
from an undesignated Drinkard oil pool and an undesignated Abo
oil pool through parallel strings of 23/8 -inch tubing, with
separation of the zones by a packer set at approximately
69 // feet;

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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual

Gas-Oil Ratio Test Period for the undesignated Abo oil pool.

Deliverability

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

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.