CASE 1912: Application of SOUTHERN UNION FOR GAS-OIL DUAL OF ITS JICARILLA 1-F, Unit L, Rio Arriba.

Case Mo.

1912

Replication, Transcript,
5 mill Exhibits, Etc.

New Mexico Oil Conservation Commission 1000 RIO BRAZOS ROAD AZTEG, NEW MEXICO Case 19/2 February 4, 1960 Southern Union Gas Company Burt Building Dallas, Texas Attns Mr. Paul J. Clote, Manager Drilling & Production Department Ret DC Application, Southern Union Jicarilla 1-F, L-27-26N-4W

Four depien of the above application were received in this office Dear Mr. Cletes

In the future when making dual completion applications, will you Pebruary 1, 1960. please send the copies directly to the Oil Conservation Commission, Ber 871. Santa Fe and two copies to this office.

As your dual to a gas-over oil dual I do not believe that under Rule 112 it is eligible for administrative approval. I therefore presume that the matter will be set for hearing by our Santa Fe Office. I am sending them three copies of your Application, along

with a copy of this letter. If we can be of any further service in this matter, please contact us:

Yours very truly

Enery C. Arneld Supervisor, District #3

Oil Conservation Combineton Santa Pe, N.M.

SANTA FE, NEW MEXICO

es 1910

7-3-58

Field Name Planco Mesaverde			County Rio Arriba			January 26, 1960
Operator			Lease			Well No.
	Southern Union Gas	Company	Jic	arilla		l-F
ocation	Unit	Section	To	waship		Range
Well	L	27	<u></u>	26N		4W
					oletion of a wel	ll in these same pools or in the same
zones	within one mile of the subject	t well? YES	S NO_ <u>X</u>			
If ansv	wer is yes, identify one such	instance: Ord	ler No.	; Operato	r, Lease, and	Well No.:
The fo	llowing facts are submitted:					
			Upper Zon	e 		Lower Zone
	me of tesetvoir	Mesa	verde			skota (WC)
b. Top	p and Bottom of	Pay Zon	e: 5900-6030	1	Pay Zone	: 8151-8325°
F	Pay Section	Perf.	5176-5180',	5900-60301.	Perf. 8	151-8182°, 8193-8224°,
(1	Perforations)	_ :			8304-83	251, 8285-82911,8276-8266
c. lyc	pe of production (Oil or Gas)		Ges			oil
	hod of Production		Flow		,	Flow
	Flowing or Artificial Lift)		T-TOM		1	
	llowing are attached. (Pleas	a mode VSS at	MOL			
Yes	operators of all leases off c. Waivers consenting to su been furnished copies of t d. Electrical log of the well	setting applic ch dual compl he application l or other acce at available at	ant's lease. etion from each of ptable log with to the time applicat	fset operator, or in ps and bottoms of p on is filed, it shal	lieu thereof, e producing zones I be submitted	es, and the names and addresses of vidence that said offset operators has and intervals of perforation indicate as provided by Rule 112-A.)
Yes	operators of all leases off c. Waivers consenting to su been furnished copies of t d. Electrical log of the well thereon. (If such log is no	setting applic ch dual compl he application l or other acce or available at son which this	ant's lease. etion from each of ptable log with to the time applicate s well is located t	fset operator, or in ps and bottoms of ponis filed, it shall ogether with their o	lieu thereof, e	vidence that said offset operators has and intervals of perforation indicate as provided by Rule 112-A.) address. FEB1 1960
Yes	operators of all leases off c. Waivers consenting to su been furnished copies of the d. Electrical log of the well thereon. (If such log is no l offset operators to the lease	setting applic ch dual compl he application l or other acce or available at son which this	ant's lease. etion from each of ptable log with to the time applicate s well is located t	fset operator, or in ps and bottoms of ponis filed, it shall ogether with their o	lieu thereof, e	vidence that said offset operators has and intervals of perforation indicate as provided by Rule 112-A.)
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Were all of such	operators of all leases off c. Waivers consenting to su been furnished copies of the d. Electrical log of the well thereon. (If such log is no l offset operators to the lease Southern Union Gas operators listed in Item 5 ab notification See Abor FICATE: I, the undersigned, compupervision and direction and to	setting application che dual compline application lor other accept available at a son which this company Company state that I among a pany), and that the facts	ant's lease. etion from each of * * * * * * * * * * * * *	ps and bottoms of points filed, it shall ogether with their of the core all offset of this application of this application of the correct and core action for administration of the correct and correc	on? YES	vidence that said offset operators has and intervals of perforation indicat as provided by Rule 112-A.) address. FEB 1 1960 DIST. 3 NO If answer is yes, give da senthern Union Gas art; and that this report was prepared

SANTA FE, NEW MEXICO

Field Name Blanco Hanverdo		County Rio Arriba		Date Jerustry 25, 1960		
Operator		Lease			Well No.	
Southern Union Cas	Section	J	icarilla Township		Range	
Location Unit	Section	,	rownship		hauge	
of Well I. Has the New Mexico Oil Conservat			horized the dual compl	etion of a we	Il in these same pools or in the same	
zones within one mile of the subject. If answer is yes, identify one such				, Lease, and	Well No.:	
3. The following facts are submitted:		Upper 2	one		Lower Zone	
a. Name of reservoir	100	werde			taketa (uc)	
b. Top and Bottom of	Per Se	e: 5900-60	30°	Past Zone	: 8151-83251	
Pay Section (Perforations)	Pert.	5176-5180	5900-60301.	Parf. 6	151-0160', 0193-0004',	
c. Type of production (Oil or Gas)		Ooo			041	
d. Method of Production		They		1	Plow	
(Flowing or Artificial Lift) The following are attached. (Pleas	a made VES	· NO		I .		
List all offset operators to the leas	e on which thi	s well is located	i together with their co	orrect mailing	corn	
Southern Union Cod	Company	ie operator	on all offset		RELEIVED FEB1 1960	
					DIST. 3	
					The state of the s	
Were all operators listed in Item 5 a of such notification	bove notified :	and furnished a	copy of this application	a? YES	NO If answer is yes, give da	
	pany), and tha	t I am authorize	d by said company to n		ort; and that this report was prepared	
der my supervision and direction and	that the facts	stated therein a	re true, correct and cor		and a state of the	
					iginal Signed By	
					J. CLOTE	
• • • • • • • • • • • • • • • • • • •		7	Table 1 Committee of the Committee of th	itive approva	I, the New Mexico Oil Conservation Commission's Santa Fe office. If,	
after said twenty-day period, no	protest nor re will result in	quest for hearin an unorthodox w	g is received by the Sa ell location and/or a n	inta Fe office ion-standard	e, the application will then be process proration unit in either or both of the	

SANTA FE, NEW MEXICO

7-3-58

Field Name				Rio Arriba		Date Jesuary 26, 1960		
Operator	horm Union Gas	Oceanous	Lease	parilla		Well No.		
Location Unit		Section		ownship		Range		
of Well	L	2	1	26 H		No.		
	Mexico Oil Conserva	ion Commissi	on heretofore auth	orized the dual compl	letion of a well	l in these same pools or in the same		
zones within	one mile of the subje	ct well? YE	SNO	-				
?. If answer is y	es, identify one such	instance: Or	der No.	; Operator	, Lease, and W	Tell No.:		
3. The following	facts are submitted:				1			
			Upper Zo.	ne		Lower Zone		
o. Name of re		No.	TOTAL	4		Abota (IC)		
5. Top and B		Pay 24	#: 5900-603	econ Compt	THE PERSON !			
Pay Sec		Promise.	brie-bree.	3400-0031.	Santa Barr	32-816t', 61.93-8884'		
(Perfora					0,521-19,3	D. Carleson . Van London.		
	Production (Gil or Gas)				<u> </u>			
d. Method of			The state of the s			75,04		
	g or Artificial Lift) are attached. (Plea	n moste VEC -	. 101		<u></u>			
there	eon. (If such log is a	ot available a	t the time applicat		be submitted prect mailing	s and intervals of perforation indicated as provided by Rule 112-A.) address. FEBT 1960 IL CON. GOM. DIST. 3		
	· · · · · · · · · · · · · · · · · · ·		- 4		*			
. Were all operate of such notific		sbove notified	and furnished a co	py of this application	n? YES	NO If answer is yes, give date		
· · · · · · · · · · · · · · · · · · ·		npany), and th	at I am authorized	by said company to n		ort; and that this report was prepared		
nder my supervis	ion and direction and	that the facts	s stated therein are	true, correct and con	0	best of my knowledge. Priginal Signed By J. CLOTE		
Commission	on will hold the appl	ication for a pe	eriod of twenty (20)	days from date of re	ative approval	gnature I, the New Mexico Oil Conservation Commission's Santa Fe office. If,		
IOTE: If the prop	posed dual completio	n will result in	an unorthodox wel	l location and/or a r	on-standard p	e, the application will then be processed proration unit in either or both of the ly with this application.		

SANTA FE, NEW MEXICO

7-3-58

Field Name				County Arriba		Date Jeruszy 26, 1960	
perator	Sandhann	thies (of	Comment	Lease	ionvilla		Well No.
ocation	Unit		Section		Township		Range
Well	John	£.	8	7	26 8		* 6
zones	within one n	co Oil Conserva nile of the subje dentify one such	ct well? YE	S NO		oletion of a well	I in these same pools or in the same
The fo	llowing fact	s are submitted:		Upper 2	Cone		Lower Zone
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b. Top	p and Botton	of of	STOP ZON	s 5900-60	301	Yes Tane	6151-6325*
	ay Section		Fut.	5176-5180	, 5000-6090°.	Fort. C	152-846R', 6193-828A',
(Perforations	;)				6304-63	15', 8005-2004 . B076-8066
c. Typ	pe of produc	tion (Oil or Gas)		Cos	1		013
	hod of Prod			Play		1	Plan .
(Flowing or A	Artificial Lift)					
700	been furn d. Electric thereon.	nished copies of cal log of the we (If such log is	the application Il or other according available a	n.* eptable log with at the time appli	tops and bottoms of p	producing zones I be submitted correct mailing	EEEIVED BY 1960
						Join	CON. COM. DIST. 3
		* <u>.</u>		. —			
of such	notification	the undersigned	l, state that I a	am the	Irig. A Prod.	of the	NO If answer is yes, give date Suches Union Cos
er my si	upervision 2						ort; and that this report was prepared best of my knowledge.
						(Original Signed By
	•						P. J. CLOTE
					real s. Ga		gnature
							, the New Mexico Oil Conservation
Cor	mmission w	ill hold the appl	ication for a pe	eriod of twenty (20) days from date of	receipt by the (Commission's Santa Fe office. If,
TE: If t	he proposed	i dual completio	n will result in	an unorthodox	well location and/or a	non-standard p	, the application will then be process proration unit in either or both of the ly with this application.

SOUTHERN (SMICH FAS. COMPANY APPLICATION FOR APPRIONAL OF DUAL COMPLETION OF 5.U.G. CO. SICARILLA IF PLAT OF LEFSET LEASES

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SOUTHERN LINION FAS COMPANY
APPLICATION FOR APPROVAL OF DUAL COMPLETION OF
5.U.G. CO. SICARILLA IF
PLAT OF CEFSET LEASES

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SOUTHERN COMEN GAS COMPANY

APPLICATION FOR APPROVAL OF DUAL COMPLETION OF

5.4.G. Co. SICARILLA IF

PLAT OF SEESET LEASES

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SOUTHERN UNION FOR APPROVAL OF DUAL COMPLETION OF 5.U.G. CO. SICAPILLA IF BLAT OF SEFSET LEASES

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6 5	33 Vic 2F (5.6.96)		\$ Jic. 38 π.R.c.
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Janamar 11 Court 1.45 1151011 CE ٠٠٠٠. 2 Kecket 1% " 36 # H.40 contid w/125 st. 175' 236" EUE 4.7" J-55 114 2 5180, 4" port it & pin Aller. 7" 20" / 23" 1-55 cm/d w/250 50x 70p of lime 59'd a/75 50 5411-(P8) Whip sto 1: 5439 Fish: 276" 4.7" to), top at 5761 Perfit 2 hpf 6030-5900. Fracil. Open Hole to 608 1 2 4 " EUE 4.7 " J-55 (b) 6/2 jts 23/ FS. tal 188 \$ 7879 5" 15 " J-55 cmld Cameo Cell in Step & 174 W/450 04. ft. 40% Guibresen Type A 2". 8" Picker 6 7516
Silling supple of 7548
Tril at 7579 w/ 4" performed per cellar thereof 15 sx rej. Porte 4 hot 1940-8100. Squarges whoe sax ref.) Poft & Apt 8224-8193, 8182-8151 Asidized & Fracid. Portal + hpf 8325-8304, 8271-8285, 8276-8266.
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Tail at 1879 w/ 4' perf's and pen collar Dea Cel 45 3x reg. Partid 4 hot 7940-8000 Squeezes refice sax reg. Profit of Apt 8224-8193, 8182-8151 Acidized & Fracid. Perfd + hpf 8325-8304, 8291-8285, 8276-8266.
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ZELEANY! Trucker 1 Course 7.45 Justanille 125 + TEJ 41115 - - 5J. OL = U90 JAGY. A. 13/8 " 36 # H.40 ente w/125 st. 175' 23/ " EIII 4.7# J-55 Wil & 5180, 4' port st & pin Min. 7" 20" 123" 1-55 cmld w/250 50x 5180 Top of liner Egyd

w/75 sm 5417 (PB) Whipstock 5439 Fish: 278"47" they, Perfit 2 hpf 6030-5910. Fracit. Open Hite to GOOL 23/ "EUE 47 " J-55 lbg w/2 jts 23/ " FJ tul ldy @ 7877 5" 15 " J-55 cmld 1 Cameo Cellar Step & 6974 w/ 450 cu. ft. 40% Guibirson Type A 2". 5" Picker @ 7816

Solving ripple at 7848

Tail at 7879 w/ 4" perfy and pan colling tracel 15 sx rej. Perfo 4 hp: 7940-8100. Squeezet which sax reg. Prfd 4 Apf 8224-8193, 8182-8151 Acidized & Fracid. Perfd + hpf 8325-8304, 8291-8285, 8276-8266.
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Acidized & Fracid. 8350

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NEW CASES

CASE 1901

application of Caulkins Oil Company for a gas-gas dual completion and for establishment of a 320-acre non-standard Dakota gas unit. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its PC-233 Well, located in Unit D, Section 16, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of gas from the South Blanco-Pictured Cliffs Pool and the production of gas from the Dakota Producing Interval. Applicant further seeks the establishment of a 320-acre non-standard gas unit in the Dakota Producing Interval consisting of the N/2 N/2 and S/2 NW/4 and N/2 SW/4 of said Section 16 to be dedicated to said PC-233 Well.

CASE 1902:

Application of Kenneth Murchison & Company for permission to commingle the production from two separate non-contiguous leases. Applicant, in the above-styled cause, seeks permission to commingle the Bisti-Lower Gallup Oil Pool production from the Federal lease NM-O36255-A, consisting of the S/2 SE/4 of Section 3 and the Federal Lease NM-O36255-B, consisting of the S/2 NE/4 of said Section 3, Township 25 North, Range 12 West, San Juan County, New Mexico.

CASE 1903:

Application of Texaco Inc. for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the liquid hydrocarbon production from the Moore-Pennsylvanian Pool and the Moore-Wolfcamp Gas Pool from all wells on its State "BN" (NCT-1) lease consisting of the SW/4 of Section 25, Township 11 South, Range 32 East, Lea County, New Mexico.

CASE 1904:

Application of Sunray Mid-Continent Oil Company for an amendment of Order R-1414, as amended by R-1414-A and R-1414-B. Applicant, in the above-styled cause, seeks an order amending the provisions of Order R-1414 which relate to assignment and transfer of allowables in the Central Bisti LPG-Gas-Water Injection Project, Eisti-Lower Gallup Oil Pool, San Juan County, New Mexico.

CASE 1905:

Application of Humble Oil & Refining Company for an oil-oil dual completion utilizing parallel strings of small diameter casing cemented in a common well bore. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State M-20 Well, located 1930 feet from the North line and 1980 feet from

DOCKET: EXAMINER HEARING FEBRUARY 25, 1960

Oil Conservation Commission - 9 a.m., State Corporation Commission Hearing Room, Basement, Capitol Building, Santa Fe, New Mexico

The following cases will be heard before Elvis A. Utz, Examiner, or A. L. Porter, Jr., Secretary-Director:

CONTINUED CASES

CASE 1868:

Application of Hamilton Dome Oil Company, Ltd. for permission to commingle the production from three separate pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Justis-Drinkard Pool, the Justis-Fusselman Pool and an undesignated Tubb pool from wells on a lease consisting of the S/2 SE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico.

CASE 1879:

Application of Amerada Petroleum Corporation for a gas-oil dual completion and for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State EM "A" Well No. 2, located 660 feet from the South and West lines of Section 22, Township 19 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Eumont Gas Pool and the production of oil from the Eumont Gas Pool through the casing-tubing annulus and the tubing respectively. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SW/4 of said Section 22 to be dedicated to the said State EM "A" Well No. 2.

CASE 1888:

Application of C. W. Trainer for off-lease storage of oil production. Applicant, in the above-styled cause, seeks permission to store the Pearl-Queen Oil Pool production from his Rushing lease, consisting of the W/2 NE/4 of Section 22, Township 19 South, Range 35 East, Lea County, New Mexico, in a tank battery located on his Signal State lease, consisting of the E/2 NW/4 of said Section 22.

CASE 1894:

(Continued)

Application of Robert N. Enfield for designation of a unit area. Applicant, in the above-styled cause, seeks a designation of the following-Jescribed 560 acres as the Southwest Mescalero Unit Area: Section 32, E/2 NE/4; Section 33, S/2 and NW/4, Township 10 South, Range 32 East, Lea County, New Mexico.

-3-Docket No. 6-60

the West line of Section 29, Township 22 South, Range 37 East, Lea County, in such a manner as to permit the production of oil from the Langlie-Mattix Pool and the production of oil from the Drinkard Pool through 2 7/8-inch casing and 4½-inch casing respectively with said casing being cemented in a common well bore.

CASE 1906:

Application of El Paso Natural Gas Products Company for permission to produce more than sixteen wells in a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing the production into a common tank battery of all Horseshoe-Gallup Oil Pool wells presently drilled or hereafter completed on its Horseshoe Ute lease, comprising portions of Sections 27, 28, 33 and 34, Township 31 North, Range 16 West, San Juan County, New Mexico.

CASE 1907:

Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its J. N. Carson (NCT-A) Well No. 11, located in Unit K of Section 28, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Wantz-Abo Pool and the production of oil from the Paddock Pool through parallel strings of 2 3/8-inch tubing.

CASE 1908:

Application of Val R. Reese & Associates, Inc. for an oilgas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Sperling Well No. 1-30, located in Unit I, Section 30, Township 24 North, Range 6 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of oil from the Gallup formation adjacent to the Escrito-Gallup Oil Pool and the production of gas from the Dakofa Producing Interval through parallel strings of 2 3/8-inch tubing.

CASE 1909:

Application of Pan American Petroleum Corporation for a 386-acre non-standard gas unit in the Dakota Producing Interval. Applicant, in the above-styled cause, seeks the establishment of a 386-acre non-standard gas unit in the Dakota Producing Interval consisting of all of partial Section 7 and the W/2 of partial Section 8, Township 28 North, Range 10 West, San Juan County, New Mexico, said unit to be dedicated to the J. F. Day "F" Well No. 1, to be located in the E/2 of said partial Section 7.

CASE 1910:

Application of Roy H. Smith Drilling Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Maljamar-Yates Pool and the Pearsall Pool from all wells on its Walker "A" lease in Section 5, Township 18 South, Range 32 East, and to commingle the production from the Baish Pool and the Maljamar Pool from wells on its Gulf State lease in Section 16, Township 17 South, Range 32 East, all in Lea County, New Mexico.

CASE 1911:

Application of Johnston and Shear for a multiple zone slim hole completion. Applicant, in the above-styled cause, seeks an order authorizing the multiple completion of its Jicarilla Well No. 1-4, located 985 feet from the North line and 805 feet from the West line of Section 4, Township 24 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to produce gas from the South Blanco-Pictured Cliffs Pool (or Otero Chacra), gas from the Dakota Producing Interval, and oil from the Gallup formation adjacent to the Otero-Gallup Pool, each to be produced through 2 7/8-inch tubing which tubing is to be cemented in a common well bore.

CASE 1912:

Application of Southern Union Gas Company for a gas-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Jicarilla 1-F, Unit L, Section 27, Township 26 North, Range 4 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of gas from the Blanco Mesaverde Pool, and the production of oil from the Dakota producing interval through parallel strings of 2 3/8-inch tubing.

GASE 1913

Application of Continental Oil Company for a non-standard oil well location. Applicant, in the above-styled cause, seeks a non-standard oil well location for its Wm. Mitchell "A" Well No. 20, to be located 1320 feet from the North line and 1520 feet from the West line of Section 20, Township 17 South, Range 32 East, Maljamar Paddock Pool, Lea County, New Mexico.

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

March 9, 1960

Mr. Oran L. Haseltine Southern Union Cas Company P. O. Box 815 Farmington, New Mexico

Dear Mr. Haseltine:

We enclose herewith two copies of Order R-1626 in Case 1912 issued by the Oil Conservation Commission this date. This case was heard before an examiner on February 25, 1960.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ir/

Enclosures: (2)

Collected +

BEFORE THE CIL 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. 1912 Order No. R-1626

> > CALLEST CONTROL CONTROL OF THE STREET CONTROL CONTROL

APPLICATION OF SOUTHERN UNION GAS COMPANY FOR A GAS-OIL DUAL COMPLETION IN THE BLANCO-MESAVERDE POOL AND IN AN UNDESIGNATED DAKOTA OIL POOL, RIO ARRIBA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 25, 1960, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 9th day of March, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Southern Union Gas Company, is the owner and operator of the Jicarilla Well Ho. 1-Y, located in Unit L, Section 27, Township 26 North, Range 4 West, MMPM, Rio Arriba County, New Mexico.
- (3) That the applicant proposes to dually complete the said Jicarilla Well No. 1-F in such a manner as to permit the production of gas from the Blanco-Messeveros Fool and the production of oil from an undesignated Dakota pool through parallel strings of 2-3/8 inch MUE tubing.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will neither cause waste nor impair correlative rights.

Case No. 1912 Order No. R-1626

IT IS THEREFORE ORDERED:

That the applicant be and the same is hereby authorized to dually complete its Jicarilla Well No. 1-F, located in Unit L, Section 27, Township 26 North, Range 4 West, NMPM, Unit L, Section 27, Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit the production of gas from the Blanco-Mesaverde Pool and the production of oil from an undesignated Dakota oil peol production of oil from an undesignated Dakota oil peol through parallel strings of 2-3/8 inch EUE tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That applicant shall take packerleakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Blanco-Mesaverde Pool or as directed by the Secretary-Director of the Commission.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

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

STATE OF NEW MEXICO OIL COMBERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAM, Member

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

esr/

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE 1912:

Application of Southern Union Gas Company for a gas-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Jicarillo 1-F, Unit L; Section 27, Township 26 North; Range 4 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of gas from the Blanco Mesaverde Pool, and the production of oil from the Dakota producing interval through parallel strings of 2 3/8inch tubing.

> State Corporation Commission Hearing Room Capitol Building Santa Fe, New Mexico February 25, 1960

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 1912.

MR. FLINT: Case 1912. Application of Southern Union Gas

Company for a gas-oil dual completion.

(Witness sworn.)

OREN HAZELTIN

called as a witness, having been first duly sworn, testified as

Collows:



ALBUQUERQUE, NEW MEXICO

DIRECT EXAMINATION

BY MR. VERITY:

- Will you state your name, please?
- Oren Hazeltin.
- Mr. Hazeltin, what is your present employment?
- Southern Union Gas Company at Farmington, Production Superintendent.
 - What is your educational background?
- Graduate from University of California College of Engineering 1950.
- You've testified before this Commission heretofore as an expert petroleum engineer, have you not?
 - Yes, sir.
- Are you familiar with the completion of the Southern Union Gas Company's Jicarilla 1-F well located in the Northwest quarter of the Southwest quarter of Section 27, 26 North, 4 West of Rio Arriba County?
 - Yes, sir.
 - Did you complete that well?
 - Yes, sir.
- You are familiar, then, with the details on how it was completed, are you?
 - Yes, sir.
- I hand you what the Reporter has marked Exhibit "A", and ask you to tell us what it is, please?



HONE CH 3-669

- Q Turning to part 3 of this Exhibit, explain to us what that is?
- A Part 3 is a plat showing location of the well in question, Jicarilla 1-F marked in red, and the nine sections surrounding that area.
- Q Does Southern Union own the lease on all of those nine sections?
- A Yes, sir, Southern Union has half interest in all of that acreage that's shown there.
 - Q And Humble has the other half?
- A Humble has the other half of the six most westerly sections, and Aztec has the other half in the three eastern sections. Southern Union being the operator in all cases.
- Q Referring to the next portion of the Exhibit, part 4, will you please explain to us what it is?
- A This is a schematic of the casing and tubing details as the well presently exists.
- Q Referring to this Exhibit, tell us, if you will, please, the history of the completions of this well?
- A This well was originally drilled to a total depth of six oh eight oh with seven inch pipe set to fifty-four nineteen,



and was completed as an open hole completion in the Mesa Verde subsequently.

- Q Was it produced in the Mesa Verde at that time?
- A Yes, sir.
- Q Proceed.
- A Subsequently, it was felt advisable to recomplete the well and, at the same time, deepen to the Dakota, the Dakota being wildcat in that area, and at that time, it was drilled to a total depth of eighty-three fifty and a liner, five inch liner, was set on bottom and hung at fifty-two nineteen up in the seventies.
 - Q At that juncture, what was done to the Mesa Verde?
- A The Mesa Verde was recompleted. It was perforated and fractured, and has since been cleaned up, is presently shutin.
 - Q Have you set tubing in this hole?
- A Yes, sir. The Dakota string is set on top of a packer with the tail of that Wakota string at seven eight seven nine, that being two and three-eights O.D. tubing, and the Mesa Verde string of two and three-eights O.D. tubing is hung to five one eight oh.
- Q What type of a packer did you set between the zones, and where was it set?
- A That's a Giberson type A set at seven eight sixteen.



PRONE CH 3-6591

see a la defear of bein procest wall favore wash be to be building. Restauration and another, in Manney with a temperature with regard to the pressure service as packer?

- Part 6 is the packer to make there.
- What is your back, the realistrains suck promus test, part 5?
- Part 5 is the productive test of the Mose Verde zone.
- And then, part 6 shows your prossure test between the zones?
 - Yes, sir. A
 - It did show no leakage at all?
 - That's correct.
- Can this well be effectively and efficiently produced as a gas-oil dually completed well?
 - Yes, sir.
 - Es there any denger of waste being committed by virtue of it being dually completed?
 - No, sir. Fluid from both somes can be kept separately.
- And this will be done under the completion that you 0 have outlined?
 - Yes, sir.
 - MR. VERITY: I believe that's all. We offer Exhibit wan



in evidence.

MR. UTZ: Without objection, Exhibit "A" will be entered in the record.

CROSS-EXAMINATION

BY MR. UTZ:

- Q Your name is?
- Hazeltin.
- Q Hazeltin?
- T-I-N.
- What type of packer is the Gibersonno, permanent Q type or retrievable?
 - No, sir, that's a production packer, retrievable.
- Now, I believe the top of your perforations for your Mesa Verde arared fifty-nine hundred?
- That is right, sir.
- And your tubing is hung at fifty-one eighty? Your tubing is to be seven hundred twenty feet above the top of the perforation on the Mesa Verde?
 - Yes. A
- I cannot recall the Rule just now. There is a general rule that requires a tubing to be hung no higher than two hundred fifty feet above the top of the perforation. Is that how this well has been completed?
 - As it is shown here.
 - And this well is completed in violation of that rule,



HONE CH 3-669]

is it not -- Dakota top of the perforation seventy-nine forty; is that correct?

No, sir. Those perforations are squeezed off. The A top of the perforations that are open, the top is eighty-one fifty-one.

- This Exhibit is in error. Q
- No, it shows the perforations squeezed.
- Eighty-one fifty-one? Q
- A Right.
- The tubing is hung at seventy-eight seventy-nine? Q
- Yes, sir.
- Q A little closer on that two hundred.
- The reason that the top string is hung at fifty-one eighty is that we had a five inch liner which wouldn't admit two strings of two and three-eights parallel, or actually wouldn't admit much else in the way of tubing.
 - Top of liner is at fifty-nine nineteen? Q
 - Yes, sir. A
 - So you had to hang your tubing above that?
 - A Right.
- Q All this is caused by the fishing in the hole that you had to whipstock around, if I understand you correctly?
- No, the fishing was incidental to the redrilling we hoped that we could reclean that old hole out. The reason for redrilling was twofold: The old hole had caved in around the



tubing, and that's been the history with a lot of Mesa Verde completions in the San Juan Basin, that the old shotholes caved in, and have goine in later and cleaned them up and hung the liner against the Mesa Verde. Now, in this case, we went ahead and deepened to the Dakota at the same time because the bottom of the original Mesa Verde tubing string was caved in around to the point we couldn't recovery it.

Q The Rule that I'm speaking of is Rule 107.

MR. VERITY: 107?

MR. UTZ: Right.

CROSS EXAMINATION

BY MR. FLINT:

Q As I understand it, you are about seven hundred twenty feet above the pay with your tubing?

A The Mesa Verde is seven hundred and twenty feet above the top of the Mesa Verde zone, right.

Q So in fact, you are required to ask for an exception to this requirement as well as the normal dual?

MR. VERITY: That does not have to be until notice of hearing. I think that can be granted.

MR. UTZ: I think that can be granted administratively.

MR. VERTTY: Isn't is possible the Commission could grant this gas-oil completion with provision that we comply with the



ALBUQUERQUE, NEW MEXICO

Rules which we must do. Recognize that.

MR. UTZ: That's true.

MR. VERITY: We will request administrative approval to leave this completion as it is.

MR. FLINT: I'm not clear as to the eligibility of this type of an exception for administrative approval. I don't see it. The provision for administrative exception in this Rule 107. I think we'll have to investigate that and handle it subsequent to this hearing the best we can.

MR. UTZ: The only thing we can determine here is that it is a violation of that Rule, and take whatever action is necessary.

Do you have bottom hole pressures for these two zones in this area?

We have shutin casing head pressures, but we have A not extroplated this or run bottom hole bombs. Shutin casing head pressure on the Mesa Verde is eleven seventy-seven gauge, and on the Dakota is thirteen hundred p.s.i.g.

MR. FLINT: Mr. Examiner, I do know that provision is made for administrative exception to that two hundred fifty foot limitation, and I suggest, if this dual completion, if approval of this dual completion is recommended, that it should be made subject to added approval of this deviation from the Statewide Rules.

MR. UTZ: Does the Dakota produce any liquids?



- A Yes, sir.
- Q That accounts for the thirteen hundred pound surface gauge?

A It is oil productive primarily. The gas-oil ratio attached to the Exhibit gives a gas-oil ratio twelve hundred ninety-eight cubic feet per barrel.

MR. UTZ: Any other questions of the witness?

MR. VERITY: I have one other question. Mr. Hazeltin, what cementing program did you use on your lower zone?

A That was— The liner was cemented using Haliburton equipment, cemented with four hundred fifty sacks of dysel lightweight cement and four hundred fifty cubic feet of dysel and four hundred forty-five sacks of regular cement to give a good shoe cement job, and using temperature survey the height of that cement was determined, and the top of the liner was squeezed with, I believe, seventy-five sacks behind the top on the liner.

- Q So that you had cement in the top and below?
- A That is right.

MR. UTZ: No other questions? The witness may be excused.

(Witness excused.)

MR. UTZ: Any statements to be made in this case? The case will be taken under advisement.



<u>CERTIFICATE</u>

STATE OF NEW PERICO COUNTY OF BERNALILLO

I, J. A. TRUJILLO, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in stenotype and reduced to typewritten transcript by me and/or under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal, this, the _ , 1960, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

NOTARY PUBLIC

My commission expires: October 5, 1960.

> I do hereby certify that the foregoing is New Mexico Oil Conservation Commission



SOUTHERS UNION GAS COREANY

JICARILLA 1-P

LIST OF EXHIBITS

- 1. Letter of Transmittal, Application for Dual Completion.
- 2. Application for Dual Completion
- Plat of Offset Leases
- 4. Sketch of Casing and Tubing Petails
- 5. Multi-Point Back Pressure Test for Gas Wells (Mesaverde)
- 6. Northwest New Mexico Packer Leakage Test
- 7. Packer Setting Affidavit
- 8. Subsequent Report of Redrilling (three pages)
- 9. Gas-Oil Report (Dakota)
- 10. Induction-Electrical Log

Ex. A Cos 1912

Mr. Emery C. Arnold New Mexico Oil Conservation Commission 1000 Rio Brazos Road Autec, New Mondeo

Pear Mr. Arnold:

We are enclosing the following material on the Jicarilla #1-F well, a duel completion, which is located in Section 27, Township 26%, Range lik in Rio Arriba County, New Mexico.

- 1. Original and four copies of Application for Dual Completion
- 2. Five copies of Plat of Offset Lesses 3. Five copies covering Casing and Tubing Details
- 4. Original and four copies of Multi-Point Back Pressure Test for Gas Wells
- 5. Original and four copies of Northwest New Mexico
- 6. Original and two copies of Packer Setting Affidavit Packer-Leakage Test

If we can be of further assistance, please advise.

Yours very truly,

SOUTHERN UNION GAS COMPANY

PJCiffc Encls.

co: Humble Oil & Refining Company Production & Exploration P. O. Box 2180 Houston, Texas

> Oran Haseltine Parsington, New Mexico

boc: Land & Lease Dept. - Dallas Proration Dept. - Dallas

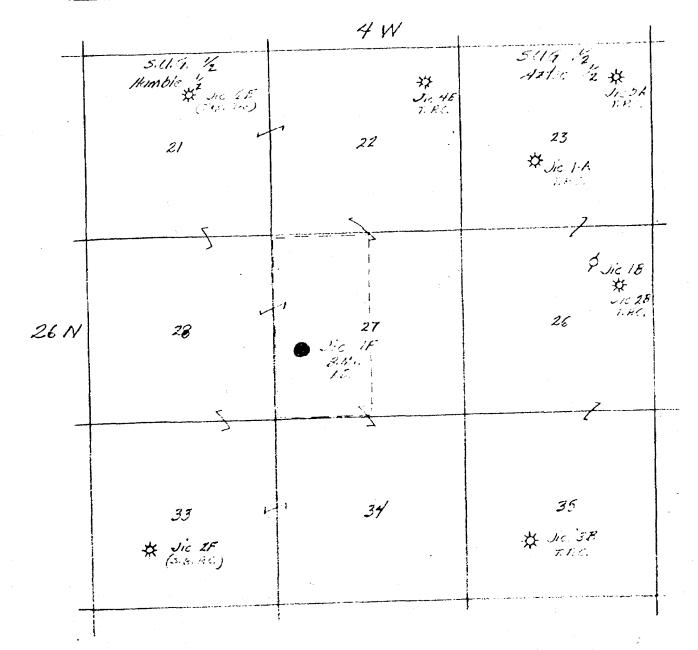
SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

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c. Type of production (Oil or Gas)	Cas		011
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. The following are attached. (Please	mark YES of NO)		
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Southern United Gas Sc	rend is oblige	or on all oxises s	icreage
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Were all operators listed in Item 5 aboo of such notification	we notified and furnished	d a copy of this applicatio	on? YES NO If answer is yes, give da
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producing zones, then separate application for approval of the same should be filed simultaneously with this application.

SOUTHEREN CHIEN TAS COMPANY APPRICATION FOR APPRICAL OF DUAL COMMETTED OF 5.U.G. CO. SICARILLA, 1F PLAT OF SETSET LEASES



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MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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6. Flow feat No. 2 stall be conflicted even though no leak was indicated during Plow Fest No. 1. There have no blow uset for 2 as to be the base as for Plow Test to. 1 except they the proviously produced woo small in with shut-in while the zone which was previously upst-in is produced.

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The second of th

CUIVEAD 1200 FLOW Test No. 1 800 Curve 1: Mesaverde Casing pressure - shut in Curve B: NAKOTA EUbing pressure - Thowing 460 put points: Curve By LApsed Time since start of FLOW Test Noil, Hrs. CUIVE AD curve 82 FLOW TEST NO. 2 Curve A: DAKOTA Tubing Pressure Curve B. Mesaverde tubing Pressure DWT points: LAPSED TIME SINGE Start OF FLOW Test No. 2, Hrs.

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

						Mell
Operator_	Southern in	ion Cas Commi	Ā	Lease Jic	arllia "i"	No. 1
Location of Well.	Unit 1. Sec. 2	7 Tun. 261	g	ra kut	Coun	iter aix a se
or herr.	OHIO PARTICIONAL DECAR	THP: ZON	Type of Prod	Method	of Prod.	Prod. Medium
	Name of Rese	ervoir or Pool	(Oil or Gas)	(Flow or	Art. Lift)	Prod. Medium (Tbg. or Csg.)
Upper Completion	n Blanco Pes	avordo -	Can	<u>}</u>		
Lower				120	¥	The
Completion	n Dakota (111)		Oil	17.9	¥	The
Upper Hou	r date	PRE-	FLOW SHUT-IN PR	ESSURE DATA SI pre		Stabilized?
Compl Si	hut-in 1-10-60		ut-in 11 days		1177	(Yes or No) you
Lower Hou	r, date 9100 👫	Length	of	SI pre	99•	Stabilized?
	nut-in 1-14-60	time sh	ut-in 74 hour	rs psig	1300	(Yes or No) Yes
Commenced	at (hour, date)	* 10:30 a.m.	1-17-60	Zone p	roducing (Up	per or Lower):Lower
Time	Lapsed time	Pres	sure	Prod. Zone		
luik) a m	e since*	Upper Compl.	Lower Compl.	Temp.	Re	emarks
1-17-60	0	1172	1300	Ambient	Start of	test
12:30 p.s	me 2 hrse	1173.	lici :	80		
2130 par		1175	40	80		
10:30 a.:		1176	ħO	80		
10130 A.F	14					
1-1/-60	48 hre.	1176	110	50	and of t	est
Production	rate during te	st				
011: <u>50</u>	BOPD ba	ased on 100	Bbls. in	Hrs Meten	i. hi dog. Gr	avGOR
		MID-T	est shut-in pri	ESSURE DATA		
Upper Hour	, date	Length	of t-in 11 days	SI pros	3.	Stabilized?
Lower Hour	ut-in 1-10-60 , date 10:30 a.	Length	of 10:30 a.m.	SI pres	11//	(Yes or No) Yes Stabilized?
Compl Sh	ut-in 1-19-69		t-in 1-21-60	psig		(Yes or No) Yes
Commonand of	at (hour, date)*	ως 10•36 a . κ.	FLOW TEST NO		oducina (Ilan	er or Lower):
Time	Lapsed time	Pres		Prod. Zone	ordering (opp	er or nowery.
(hour date	e) since **	Upper Compl.	Lower Compl.	Temp.	Re	marks
10:30 8.8	0	1177	1300	Ambient	Start of	tont
10:45 a.m	• 9.25 are.	1050	-	2.	3.00	V-55 V
11:00 a.m	_ 1	930 890	1300			
11:30 a.n.	,		1300	1		
14.40						
12130 a.n.	2.00 hrs.	866	1300	70	;	
1:30 s.m.	3.00 hrs.	866	1300	70		
2-20	1	412	100			
2:30 a.m.	rate during tes		1300	70	end of	test
127 -	DODD La	sed on	Bbls. in	Hrs.	Grav.	GOR
as: 270	10	MCFPD; Tested	thru (Orifice	or Meter):_	Choice	
EMARKS:	Life and the second					
nerepy ce nowledge.	CELLY COSC COS:	THIOLESCION DE			· -	the best of my
. •			Operator	SOUTHER	i union cas (CORAST
oproved:		# . L				
	2-1 0-1 Consommt-1		D			
New Mexico	Oil Conservation		CST.	na inaseltina		
New Mexico			CST.	na Hameltina rediction Su	perintenden	
New Mexico	Oil Conservation	on Commission	Title P	na Hameltina rediction Su 1-22-60	perintendent	

STATE OF HAM SHOWED)
COUNTY OF SAN JUAN)
I, A. T. Fry , being first cally shorn apon by
oath depose and say as follows:
I am an employee of builberson Corporation, and that on Leceister 13,
1959 I was called to the location of the couthern Union Gas Company's
Jicarilla /1-7 Well located in the 18/4 St/4
of Section 27, Kanaship 26H, Rongo WW, N.H.P.K. for the
purpose of installing a production peaker. Under my direct supervision a
Cuiberson Fodel A production packer was set at 7816 feet. The pro-
duction packer was properly set in accordance with the usual practices and
ouptoms of the industry.
Gull amon Comments
Guilberson Corporation
5/8 A. T. Fry
An additional country to the figure the state of the stat
Subscribed and sworn to before me, a Notary Public in and for San Juan
ounty, New Mexico, the 13 day of December 1959.
1759.

Notary Public in and for Jun Juan County, New hexico

Oct. 15, 1960 By Complesion Expires

Budget Bureau No. 42-R358.4. Approval expires 12-31-60.

For (i	m 9. Peb. I	951)	

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office Santa Fo Lease No. Jicarilla Cont. #107 une NW/h Sd/h, Soc. 27,T-261, H-44, Rio Arriba Cty., Med Bexico

NOTICE OF INTENTION TO RE-DRILL OR REP. NOTICE OF INTENTION TO SHOOT OR ACIDIZ NOTICE OF INTENTION TO PULL OR ALTER C	T-OFF. SUI PAIR WELL SUI PAIR SUI PAIR SUI PAIR SUI PAIR SUI PAIR SUI	BSEQUENT REPORT OF WATER SHUT-OFF	XX
		January 11	, 19. 60
Jionrilla ell No. 146/ is located 36	600 ft. from (C)	ine and 850 ft. from W line o	f sec. 27
	(-)		1 500. KI
NV/4 2N/1 27 (4 Sec. and Sec. No.)	26: 4: (Twp.) (Range)		
NV/4 2v//1 27 (4 Sec. and Sec. No.)	(Twp.) (Range)	(Meridian) 3. How Mexico (State or Territory) 190 ft.	

- 54391 A.K.B.
- Set 3 whipstock at 5139 on Sept. 2, 1959
- 6. Dric. 63" whipstock hole w/gas from 5639 to 8210 7. Mid drilled hole from 3210 to 8350 T.D.
- Ren 97 Jte. 5", 15.00, J-55 cag. as a liner on Oct. 23, 1959 Catd. w/450 Cuft. 40% Diacol Cat. & 45 ax reg. cat. w/25 gel Bottom of liner set at 8350 R.K.B. Tip at 5219 R.K.B.

Company SUUTIGER! SHITCH GAS COYE'ARY Address P. O. Box 515 Permington, New Mexico

Drilling Superint

Budget Bureau No. 42-R358.4. Approval expires 12-31-60.

Form 9-381 a (Feb. 1951)								
Í								
	 							

(SUBMIT IN TRIPLICATE)

UNITED STATES

Land Office Sunty Fe Lease No Jicarilla Conta#107 unt NW/h SH/h, Sau.27,To 26H. R-hW, Rio Arriba

DEPARTMENT O	F THE INTERIOR 26%, 8-4%, RECONCTION OF THE INTERIOR Cty., New Mexico
GEOLOGIC	AL SURVEY
GEG24	
- CTC ANI	O REPORTS ON WELLS
SUNDRY NOTICES AND	D REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL.	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
	SUBSEQUENT REPORT OF ALTERING CASING
WARRED OF INTENTION TO 1251 WARREN	I SUBSEQUENT REPORT OF RE-DRILLING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT OR ACTURE	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL.	SUBSEQUENT REPORT OF ABANDONMENT SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON	TOTAL NOTICE, OR OTHER DATA)
(INDICATE ABOVE BY CHECK MARK NA	ATURE OF REPORT, NOTICE, OR OTHER DATA)
	January Li., 19.60
*	
	S line and 050 ft. from line of sec. 27
Javaria located 1600 ft. from.	S line and Opportunity (W)
Well No. 15 located 2	N. K.P. M.
WW A Sw. and Sec. No.) (Twp.)	(State or Territory)
Planco-1988 YELLE (County or	Subdivision)
(Field)	(Meridian) Range) (Meridian) (State or Territory) (State or Territory)
The elevation of the derrick floor above sea lev	rel 18(199 10.
The elevation of the deriver	LS OF WORK
	standshe of proposed customer
(Santa names of and expected depths to objective sands; and all o	see, weights, and length of the state of 5750 Ke. See the state of 5750 Ke. See the state of 5750 Ke. See the of 58 G. Cate. Pat. 22t of 50751 Re. Ke. See the of 58 G. Cate. Pat. 22t of 50751 Re. Ke. See the of 58 G. Cate. Pat. 22t of 58 G. Cate.
temporature survey on Oct. 2	net rete set a 50751 R.K. N. DOG
9. Ran temper ander nyn 78 Hagnesius	other important per of crite & 5750 kers. 11, 1959 - Fep of crite & 5750 kers. 10 Cat. ret. set & 50751 R.K.R. See top of 5n a Cat. ret. set & 50751 R.K.R. See top of 5n a Cat. ret. set & 50751 R.K.R. See top of 5n a Cat. ret. set & 50751 R.K.R. See top of 5n a Cat. ret. set & 5750 kers.
liner W/75 sa reg. on Set. 31,	on Cat. ret. set a 5075 R.K
11. Cleaned out hole to 7.5.1.1.1. 825-830h, 82	91-3285, 8278-8266; itan Baker poke. Sector and water frac perfs. W/58,968 gale. Of water and w/50,000#
12. Perf. 4 shots/16. 632950 - Sand	water frac perise appoint
w/1000 gal. 1979 g. 1959.	1 shots/ft. 82211-5193, 5102-0192
29,500% Bank Town Timed on Fills	S 0222
13. Set Baker case W/1000 gals. of	7% min actor 17, 1959
ACTUAL OF THE PROPERTY OF WATER	The barrier will be a second of the second o
get cast iron Bridge Plug at of	100 - Perf. 3 should be read with a water frac perf. 7940-8000 w/15000# sand 3 zales water frac perf. 1950.
M. Solo Rale. 15% said acid on	d water frac perf. 7910-8000 w/15000 Section 1500 Section
Blog actual and along 22.	17279 by the Geological Survey
28 028 pals water Of Trucky approve	I in writing 27
Tunderstand GAS COM	ANX
Company SOUTH HA ORIGINALISM	AHY
Address P. O. Sox 815	
Address	By
Paredneton, her hexico	
A DA COMPANY	Tiele Del Line Jupac
	GPU BULL

For (F	n 1 9- 'eb. 19	331 a (51)		
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629	OLOGICAL: SURVEY	The state was made in	. *
SUNDRY NOTICES	AND REPORTS	3 OM WELLS	
	and the second of the second o	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
NOTICE OF INTENTION TO DRICE.		ニニン しんふくむりた むしんぶたい はんじゅう	
NOTICE OF INTENTION TO CHANGE PLANS NOTICE OF INTENTION TO CHANGE PLANS NOTICE OF INTENTION TO TEST WATER SHUT OFF.	SUBSEQUEN! REPORT	SE AL BERENCE CATACLES	To the second se
			-
NOTICE OF INTENTION TO SHOOT OR ALTERY NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL	HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		andri and a second production of the second control of the second	
NOTICE OF INTERTION	WARK NATURE OF REPORT, NOTICE	OR OTHER DATAL	
FINDICATE AGOVE BY CHE.		daniens tā	g (fg.
Well No. 1-2/ is located 102 ft	5 0	No com B line of sec.	
Wall No Lesy is located 10th ft	from S line and	W M. Hom W	
E	1		
(TSee, and See, No.)	(Carrier)		
(1) See and See No.) (1990) (1) See and See No.) (1) See and See No.) (1) See and See No.)	(County or State (County)	(State of Territories)	
(rient)	coa level is the ft.		
The elevation of the derrick floor above	DETAILS OF WORK		
	and lengths of	f proposed cesines; indicate mudding jobs,	ent mar rate
(State names of and expected depths to objective sands ing points	, and all other important proposed	Alberto 1000 - Pilan Mari	1/105000
15. Clean hold out to Syldge 5		na ang ang ang ang ang ang ang ang ang a	u 4/100 €€€
	and the second of the second o	El Carrier de Decarita	
16. Am Baker Fold "A" Hotels reg. consut - Standing at 17. Perforated Inservence form	jueczo pressurie "AMA	1. 5900-0030 on hov. 30.	1.759
A STATE OF THE PROPERTY OF THE	diene propositi namenti ili li l	TOO SECTION ASSESSMENT	
17. Periorance Frace period w	Meaned out to Perel	forsation on Dec. 13	3.2376 383.45 46
	The Town of the Control of the Contr	No. 13 America Average 1	
sottom tubing at 7879 - R	.K.B.	averde formation on Doc.	13, 19:3
20. Bun 169 jts. 2 E.V.B. 4.	in a company		
Tubing landed at 5198 R.A	er e i	formations may be comes	enució.
I understand that this plan of work must receive	approval in writing by the Geologic	al Survey before operations	
COMPUTEDE IN ION GAS	COMPANI		
Company			,
Address P. O. Box 815		To Vocasia de forma	uman wasaa saa
Parkington, item			n s
	Title	on palling departments	GPQ 862040
			7

GAS-OIL RATIO REPORT

DDRESSP	. 0.	Bex (115, Pa	raington,	New Mex	X. MON	TH OF	Jamu	wy	*******************	, _{19.} 60
CHEDULED 1	rest.			COMPLE	TION TES	T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SPECIAL	TEST		(Check One
					(See Instruc						•
Lease		Well	Date of	Producing	Choke	Test	Daily Allowable	1		ring Test	GOR Cu. Ft.
LX dst		No.	Test	Method	Size	Hours	Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	Per Bbl.
Jiearilla	nya	1	k-27-	60 F	111	24	-	20	64 -	109	1298
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	exc tha tol by	oduced Deceding 25 persons of the Government of	on the buring g inc to ercent, c in ord ommiss as volusia and fail original cons	ion. mes must a temperal ginal and o	st. o test, e wable for is encou il can be be repor ture of 60 ne copy o	ach well the pool uraged to assigned ted in M 0 degree of this re	shall be plin which take adversed increase CF measure F. Speceport to the ecoordance of	well is antage of allowatered at a cific grade distributh Rule	d at a relocated of this 2 ables when the pressure of the control	ate not i by more 5 percent hen author ure base of se will be e of the Ne i Appropriate	0.60.
ate		26,	1 <i>56</i> 0		on given is		30 77 1	ern uni	ON GAS	COMPANY	<u></u>
		•					a /a	T Mar	Compan	y	
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