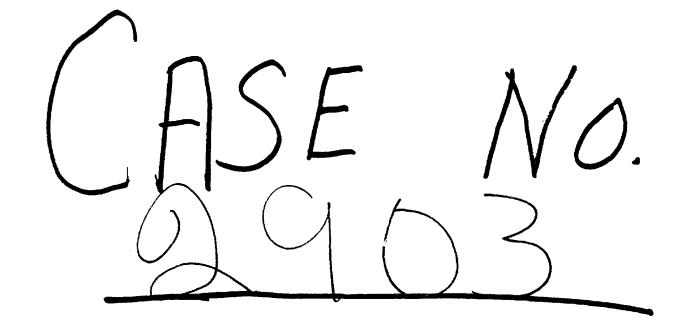
CASE 2903: Application of COASTAL STATES GAS PROD. CO. to dually complete GULF STATE WELL NO. 1.

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700

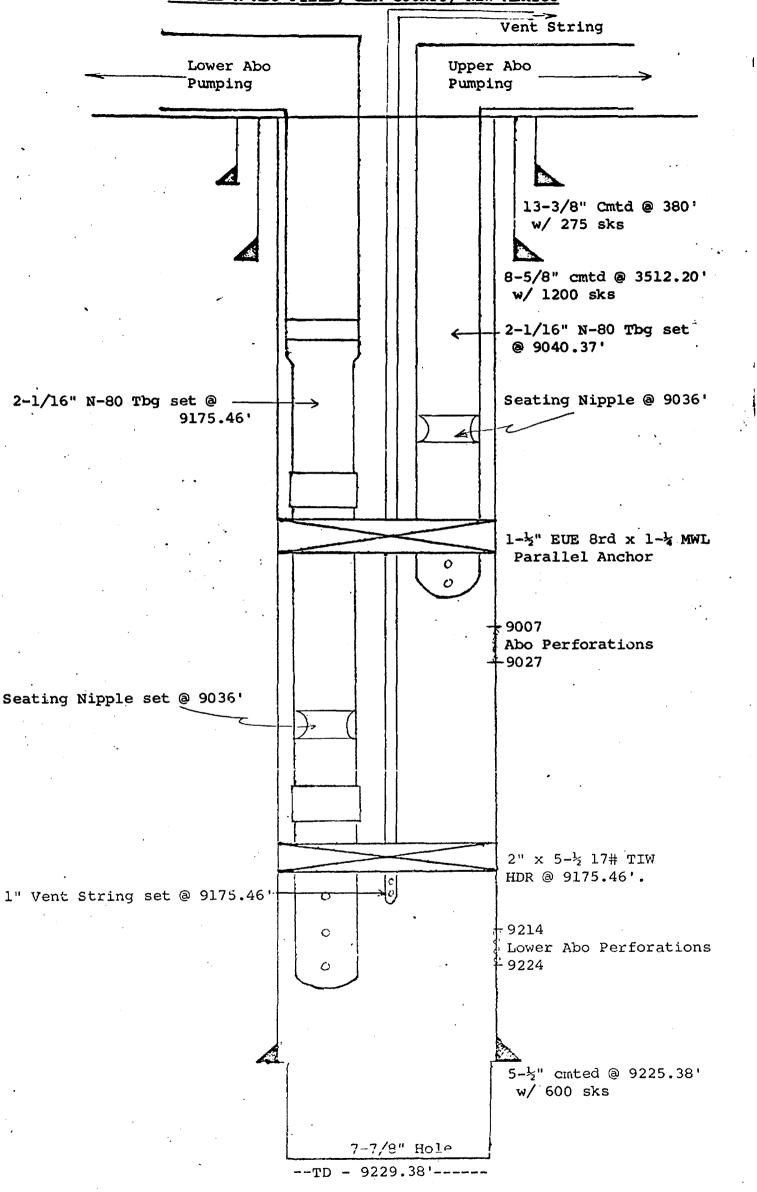


APPlication, Transcripts, SMAIL Exhibits ETC SANTA FE, NEW MEXICO

ield Name	•			County	MPLETHANN	Descent Coc
Jeto Manie	Double A	A Abo		I	-98-1919CT-174	2 Bras + N-63
perator	Coastal States	Gas	ease Gn1 i	State	001 14 001	TELL PH 5 ρ3
ocation	ucing Company	Section		owaship		Range
Well	F	20		17	7 - S	36 - E
					ompletion of a wel	l in these same pools or in the same
zones v	within one mile of the subjec	t well? YES_	NO _X			
If answ	er is yes, identify one such	instance: Order	No	; Open	rator, Lease, and W	Vell No.:
~ ()						
The tol	lowing facts are submitted:		Upper Zo	ne	}	Lower Zone
g. Nam	ne of reservoir		Abo			Lower Abo
	and Bottom of	-				201101
-	ay Section					
	Perforations)	90	007 - 903	27 '		9214 - 9224'
	e of production (Oil or Gas)		Oil			Oil
	hod of Production	-	<u> </u>			
	Flowing or Artificial Lift)	P	mping		1	Pumping
	lowing are attached. (Pleas					
List al		ot available at t	he time applicated	tion is filed, it together with th	shall be submitted eir correct mailing	s and intervals of perforation indicar as provided by Rule 112-A.) address.
XCCC	OII & Gas Compa	ny, r. o.	DOX OT/	, 1100005, 1	NEW MCAZCO	
unray	D-X Oil Compan	y, P. O. I	Box 128,	Hobbs, Ne	ew Mexico	
	oil Corporation,	D O Box	י 2167 י	Johns New	u Mavido	
urr c	tr corporacion,	F. U. BU.	K 210/	TODDS, Mev	W MEXICO	
umble	Oil & Refining	Company,	P. O. B	ox 2347, I	lobbs, New	Mexico
alph	Lowe, P. O. Box	832, Mid	Land, Te	Kas		
un Oi	1 Company, P. O	. Box 998	, Roswel	l, New Mex	kico	
	l operators listed in Item 5 a	above notified an				NO If answer is yes, give do
	notification 8	-19-63				
CERTI	FICATE: I, the undersigned	, state that I am	the Produ	ction Supt	of the	Coastal States Gas
						ort; and that this report was prepared
	upervision and direction and					
•				1		
				Kenne	17 Back	au
					S	/ Clean ignature
Sh	ould waivers from all offset	operators not ac	company an ap			il, the New Mexico Oil Conservation
						Commission's Santa Fe office. If,
aft	ter said twenty-day period, n	o protest nor req	uest for hearin	g is received by	the Santa Fe office	e, the application will then be proces

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

GULF STATE NO. 1 DOUBLE A ABO FIELD, LEA COUNTY, NEW MEXICO



NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO 3 43 PM 63

PAC	CER-SE	TTING	<u>AFFIDAVIT</u>
. (Dual	Comple	stions)

TATE OF	
ounty of)	
ath deposes and says:	rst duly sworn according to law, upon hi
un deposes and says:	
That he is of lawful age and has	full knowledge of the facts herein bolo
That he is employed by	in the capacity
Tool :: orvice Oriorvice and as suc	
<u> </u>	he personally supervised the setting of
(Make and Type of Packer)	Coastal Stoice Con Producing Scripery
0-2 : 0-4	Well No, located in Unit
(lease) Section 2C, Township	17 2 36 mms
ster, Section Townshi	ip, nanga, narm,
County, New Mexico.	·
That said packer was set at a su	bsurface depth offeet,
	,
id depth measurement having been furnished	
mular space between the two strings of prevent the commingling, within the well-bolow the packer with fluids produced from acker was properly set and that it did, wheal off the annular space between the two sich manner as that it prevented any movement	ore, of fluids produced from a stratum a stratum above the packer. That this hen set, effectively and absolutely strings of pips where it was set in
mular space between the two strings of prevent the commingling, within the well-backer the packer with fluids produced from acker was properly set and that it did, wheal off the annular space between the two	ipe where the packer was set so as to ore, of fluids produced from a stratum a stratum a stratum above the packer. That this hen set, effectively and absolutely strings of pipe where it was set in
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This form is not to be used for reporting packer leakage tests in Northwest New Merico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

1	COASTAL ST	ATES GAS PRODU	CING CO. Leas	GULF STATES	We	11
Location	n Unit	Sec	Twp 17	REG (1 112	PM 60 2 County	1 m s
of Well		20	Type of Prod	Method of Prod	Prod. Medium	Choke Size
Upper		ervoir or Pool	(Oil or Gas)	Flow, Art Lift SWAB	(Tbg or Csg) TBG.	2 ⁿ
Compl Lower	UNDESIGNATIONAL UNDESIGNATION OF THE PROPERTY		OIL	SWAB	Tag.	2" ·
Compl	ONDESTONA	TEO 7/50	FLCW TEST		166.	
Dakk sa		t (hour, date):				
				PM 10-5-63	Upper	Lower Completion
						0
						0
						No
						0
				••••		0
						5 0
						•
	_			Total Ti Producti	me On	95
Oil Proc	duction		Gas Pro	duction Test		
 						
			FLOW TEST	NO. 2		
Well ope	ened at (hour	, date):5:	FLOW TEST		Upper Completion	Lower Completion
-		, 4450/	30 AM 10		Completion	
Indicate	è by (X) f	the zone producing	30 AM 10-	-5-63	Completion	Completion
Indicate	e by (X) to	the zone producing	30 AM 10-	-5-63	Completion 50	Completion X
Indicate Pressure Stabilia	e by (X) to at beginning zed? (Yes or I	the zone producing g of test	30 AM 10-	-5-63	Completion 50	Completion X 0
Indicate Pressure Stabilia Maximum	e by (X) to at beginning zed? (Yes or I pressure duri	the zone producing of test	30 AM 10-	-5-63	Completion50	Completion X 0
Indicate Pressure Stabilia Maximum Minimum	e by (X) to at beginning zed? (Yes or I pressure during pressure during the state of the state	the zone producing of test	30 AM 10-	-5-63	Completion507550	Completion X O No 25
Indicate Pressure Stabilia Maximum Minimum Pressure	e by (X) to at beginning zed? (Yes or I pressure during pressure during e at conclusion	the zone producing of test	30 AM 10-	-5-63	Completion505050	X 0 No 25
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Indicate Pressure Stabilia Maximum Minimum Pressure Pressure Was pressure	e by (X) to e at beginning zed? (Yes or I pressure during at conclusion change during soure change at cosed at (hour	the zone producing of test	30 AM 10-5-6	Total time Productio	Completion	Completion X 0 No 25 0 15 25 Decreas
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Indicate Pressure Stabilia Maximum Minimum Pressure Pressure Was pres Well clo Oil Proc During Remarks I hereby knowledge	e by (X) to at beginning zed? (Yes or I pressure during the pressure during the change during the change of the	the zone producing of test	minus Minimum) decrease? M 10-5-6 Gas Prod During T PER WHILE St	Total tim Production est WABBING LOWER ned is true and c Operator COASTA	Completion 50 No 75 50 50 25 DECREASE e on 6.0 Hour	Completion X O No 25 O 15 25 DECREAS St of my Prop. Co.



WELL: GULF STATE AAA.NO.1

OCT FIELD: UNDESIGNATED UPPER LOWER

CHRONOLOGICAL PRESSURE DATA

	STATUS OF		Lapse Time IRS	D MIN	SURFACE UPPER (RE	PRESSURE LOWER GORDER)	BHP @ (-5275*) 9150* Psie LOWER
1963 10-5	SHUT IN.RUN GRADI	ENT	0	30	50	0	1431
10-6	LOWER ABO SHUT IN SWABBING UPPER AB)	1 2 3 4	00 00 00 00	50 60 60 70 75	0000	1431 1431 1431 1431 1431 UPPER ABO
10-0	PULLED BOMB & RU GRADIENT IN UPPE ABO. ON BOTTOM	3:00 N 4:00	5	00	70	0	9000 (-5125) 9000 1
,	W/BOMB IN UPPER	5:30	0	30 ~	50 60	-	1112 1130
	SWABBING LOWER ABO H H H H H PULLED BOMB	6:30 7:30 6:30 9:30 10:30	1 2 3 4 5 6	80 80 80 80 80 80 80 80 80 80 80 80 80 8	75 50 60 60 50	25 15 25 25 25 15	1155 1170 1188 1212

SIGNED Joe a. Eleman

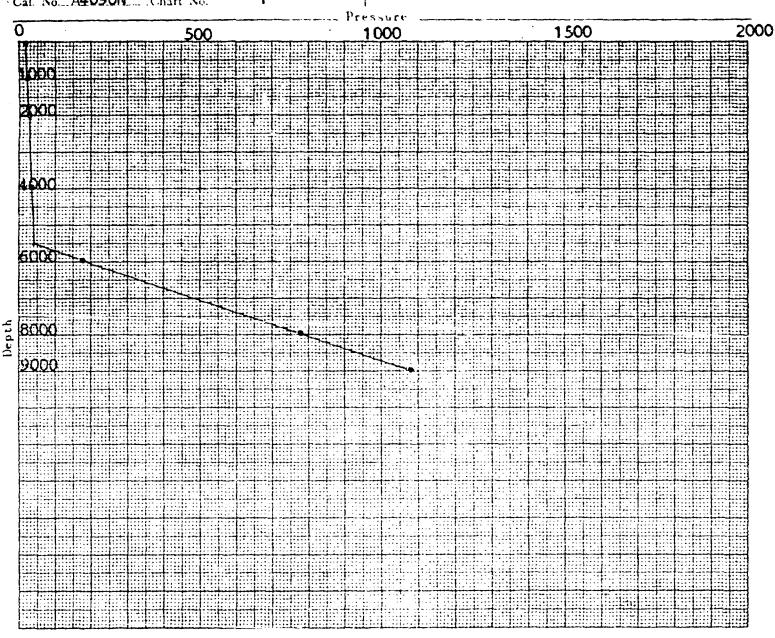


COLEMAN PETROLEUM ENGINEERING COMPANY

OCT 17 3 43 PH HODES, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR COASTAL STATES GAS PROD. Co.	•	•	
FIELD UNDESIGNATED FORMATION UPPER ABO	Depth	Pressure	Gradient
LEASE GULF STATE "AAA" WELL NO. 1	0	16	•
COUNTY LEA STATE NEW MEXICO	1000	20	. 004
DATE: 10-6-63 TIME 5:23 AM	2000	24	. 004
Status SHUT IN Test depth 9000	4000	34	.005
Time S. 11.5. HRS Last test date INITIAL	6000	179	.076
Tub Pres. 16#BHP last test	8000	779	. 300
Cas. Pres. DUAL BHP change	9000 (-5125)	1080	. 301
Elev3875 GL Fluid top 5542	•		
Datum. (-5125) Water top. NONE			
Temp. @ 1200F Run by STINSON			
Cal. No. A4090N Chart No. 1			



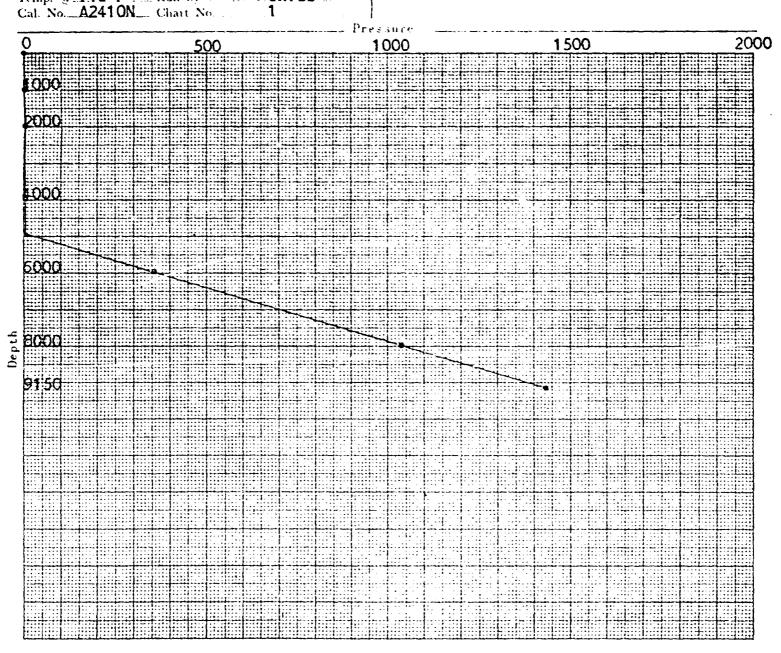


COLEMAN PETROLEUM ENGINEERING COMPANY

OCT TOBEST SEL MEXICO

BOTTOM HOLE PRESSURE RECORD

BOTTOM HOLE	PRESSURE	KIKUKD	
OPERATOR COASTAL STATES GAS PROD. CO. FIELD UNDESIGNATED FORMATION LOWER A80 LEASE GULF STATE "AAA" WELL NO. 1 COUNTY LEA STATE NEW MEXICO DATE 10-5-63 TIMF 9:30 PM Status SHUT IN Test depth 9150' Time S. 1.30 MIN Last test date INITIAL Tub Pies 0# BHP last test Cas. Pies PKR BHP change - Elev 3875 GL Fluid top 4965' Datum (-5275) Water top None Temp. @ 140°F Run by CATES	0 1000 2000 4000 6000 8000 9150	Pressure 0 0 0 3 358 1039 (-5275) 1431	Gradient002 .178 .341 .314



COASTAL STATES GAS PRODUCING COMPANY

HORTH TEXAS DIVISION

610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Sunray D-X 0il Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their \$\frac{1}{2}\$ Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R 36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027', and the lower Leonard formation perforations at 9214-9224'.

You are respectfully advised that Sunray D-X Oil Company hereby waives notice and hearing on the application for dual allowable.

Very truly yours,

SUNRAY D-X OIL COMPANY

By Efficie

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
F. O. Mortiock
GISTRICT EXPLORATION
MANAGER

H. A. Rankin DISTRCT SERVICES MANAGER August 27, 1963

P. O. Drawer 1938 Roswell, New Mexico

Coastal States Gas Producing Company 610 Citizens National Bank Building Abilene, Texas

Attention: Mr. Jack R. Birchum

Gentlemen:

Your letter of August 19, 1963 to our Hobbs, New Mexico office requesting that Gulf execute a waiver for dual allowable for your Gulf-State No. 1 has been referred to this office for reply.

Please be advised that we are unable to execute this waiver for the following reasons:

- (1) Request is for a dual allowable and not a dual completion.
- (2) Application for and diagram of the proposed completion did not accompany the request.
- (3) The Abo and Lower Drinkard are synonymous in age and it is our opinion the Commission will set for hearing your request for a dual allowable.

For your information, if this matter is set for hearing, we will take no action to support or oppose your request.

Yours very truly,

m. S. Taylor

M. I. Taylor

JHH:dch



P. D. BOX 385

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION 610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

I, Ralph Lowe, an individual, have been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027', and the lower Leonard formation perforations at 9214-9224'.

You are respectfully advised that I, Ralph Lowe, hereby waive notice and hearing on the application for dual allowable.

Very truly yours,

RALPH LOWE, AN INDIVIDUAL

Ralph Lowe

ју

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION
610 CITIZENS NATIONAL SANK BUILDING
ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Aztec Oil and Gas Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007'-9027', and the lower Leonard formation perforations at 9214'-9224'.

You are respectfully advised that Aztec Oil & Gas Company hereby waives notice and hearing on the application for dual allowable.

Very truly yours,

AZTEC OIL & GAS COMPANY

Dunthy WANT

Memo Joe D. RAMEY
SUPERVISOR & PRODUCTION
MANAGER

Jo Dan Nutter!

Coastel States

wanted you to look
at these. This Juel
is set for hearing.

Toi Dan Autte

HAM OFFICE OCC

UPPER DOUBLE A ABO 1363 NOV 19 AM 7 59

*Aztec......St. VA #1 H-20-17-36 Comp. 9/1/61 Perf. 9177-97.
Coastal States. Gulf St. #1 #-20-17-36 Comp. 8/6/63 Perf. 9007-27.

LOWER DOUBLE A ABO

AztecAtlantic St. #1 Coastal StatesGulf State #1 *SunrayN.M. St. X #1 SunrayN.M. St. X #2	E-21-17-36 F-20-17-36 B-20-17-36 G-20-17-36	Comp. 8/6/63	Perf. 9362-9400. Perf. 9214-27. Perf. 9002-62. Perf. 9220-32.
Sunray			

* Discovery wells.

The Double A Abo at present is

The lower Abo by Sunray N.M. St. X #1

The lower Abo by Sunray N.M. St. X #1

The Crastal States will be

The Crastal States will be

Double A.Abo + undesignated upper Abo.

Aug Comme The Same Melica Service Serv

DRAFT

JMD/esr

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. 2903

order No. R-26/3

APPLICATION OF COASTAL STATES GAS PRODUCING COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause rame on for hearing at 9 o'clock a.m. on October 30, 193, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 day of November, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, Coastal States Gas Producing Company, seeks authority to complete its Gulf State Well No. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce from an analysis the Double-Market Upper Abo at pool and

JMD/esr

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. 2903

Order No. R- 26/3

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(3) That although both productive zones.

Are in the Abo formation, the the distriction information.

Concerning reservoir characteristics establishes

that each zone Constitutes a separate

Common source of supply.

4(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

That approval of the subject application will prevent

IT IS THEREFORE ORDERED:

(1) That the applicant, Coastal States Gas Producing Company, is hereby authorized to complete its Gulf State Well No. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Double-A Abo Pool and an underignated love!

Leenard pool through parallel strings of 2/6-inch tubing, with separation of zones by a packer set at approximately 9/16 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 Gas-Oil Ratio Test Period for the Source of Also Poel.

(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.

Mak 6403

HIRAM M. DOW CLARENCE E. HINKLE W.E. BONDURANT, JR. GEORGE H. HUNKER, J HOWARD C. BRATTON S. B. CHRISTY IV LEWIS C.COX, JR. PAUL W. EATON, JR. CONRAD E. COFFIELD HAROLD L. HENSLEY, JR. MICHAEL R. WALLER

LAW OFFICES HERVEY, DOW & HINKLE

HINKLE BUILDING

ROSWELL, NEW MEXICO

TELEPHONE 622-6510 AREA GODE 505 POST OFFICE BOX 10

September 6, 1963

New Mexico Oil Conservation Commission P.O. Box 871 Santa Fe, New Mexico

Gentlemen:

Coastal States Gas Producing Company herewith applies for permission to dual complete its Gulf State No. 1 well located 1980 feet from the north line, and 2310 feet from the west line of Section 20, T. 17 S, R. 36 E, N.M.P.M., Lea County, New Mexico, for production of oil from the Double A Abo Pool and from an undesignated formation, con-sidered to be the Lower Leonard Formation. The dual completion is a conventional oil-oil dual completion, but the two formations have not been dually completed before in this area. It is requested that the above matter be set for hearing at the September 25 Examiner Hearing.

To the best of applicant's knowledge, interested parties are Gulf Oil Corporation, Humble Oil & Refining Co., Sunray, Sun Oil Company, Ralph Lowe and Aztec Oil & Gas Co. I am sure that you have the addresses of all of them.

DOCKET MALLED

Very truly yours,

HERVEY, DOW & HINKLE

Howard C. Bratton

HCB:jw

CC: Mr. Jack Birchum

Coastal States Gas Producing Company

Abilene, Texas

Coastal States Gas Producing Company 325 J. P. White Building

(Roswell, New Mexico

DAVID AVERT

10-15-63

DOCKET MAILED

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

		•	Date 11/3/43
72.40	2903	Hearing Dat	gan 10/30/63
CASE	Wy recommendations for an or	UG1 211 5115	
	kuter an e	uder of	Coartal
	States go	- Prod	Co July Sta Clink F of 20

Well MO 1, lor in Clink F of 20175-36E, REA Co, to produce
oil from an undesignated
dil from an undesignated
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Upper Abo oil pool thru parallel
Dandle A Abo Pool thru parallel
Dandle A Abo Pool thru parallel
packer get at approximately 9175.

Myer Abo perfs 9007 to 9027,

Myer Abo (Donale A) perfs 9214

Rower Abo (Donale A) perfs 9214

Rower Abo (Donale A) perfs 60th mehirs

to 9224. Ind that though productive
your are in the Abo forwarden, there is
your are in the Abo forwarden, there is
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BEFORE THE OIL COMSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL COMSERVATION CONCISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 2903 Order No. R-2613

APPLICATION OF COASTAL STATES GAS PRODUCING COMPANY FOR A DUAL COM-PLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE CONMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 30, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, 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.

MOW, on this 10th day of December, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Mutter, 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, Coastal States Gas Producing Company, seeks authority to complete its Gulf State Well No. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from an undesignated Upper Abo oil pool and from the Double-A Abo Pool through parallel strings of 2 1/16-inch tubing, with separation of zones by a packer set at approximately 9175 feet.
- (3) That although both productive zones are in the Abo formation, the available information concerning reservoir characteristics establishes that each zone constitutes a separate common source of supply.
- (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 prevent waste and protect correlative rights.

-2-CASE No. 2903 Order No. R-2613

IT IS THEREFORE ORDERED:

(1) That the applicant, Coastal States Gas Producing Company, is hereby authorized to complete its Gulf State Well Mo. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, MOPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from an undesignated Upper Abo oil pool and from the Double-A Abo Fool through parallel strings of 2 1/16-inch tubing, with separation of zones by a packer set at approximately 9175 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 packerleakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Double-A Abo 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 herein-above designated.

STATE OF NEW MEXICO OIL COMSERVATION COMMISSION

JECK M. CAMPBELL, Chairman

Esmall

E. S. WALKER, Member

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

••••

DOVERNOR JACK M. CAMPBELL CHAIRMAN

State of Naturalization Commission

LAND COMMISSIONER
E. S. JÜHHICH WALKER
MENSER



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

December 10, 1963

Mr. Howard Bratton Hervey, Dow & Hinkle Attorneys at Law Post Office Box 10 Roswell, New Mexico Re: Case No. 2903
Order No. R-2613
Applicant:

Coastal States Gas Producing Co.

Dear Sire

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

A. L. PORTER, Jr.
Secretary-Director

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico October 9, 1963 EXAMINER HEARING IN THE MATTER OF:

Application of Coastal States Gas Producing Company for a dual completion, Lea County, New McRico.

Case No. 2903

BEFORE: MR. ELVIS A. UTZ, EXAMINER

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

.

Phone 243-6691 DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service

Albuquerque, New Mexico

BERGIN THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico uctober 9, 1963

EXAMINER HEARING

IN THE MATTER OF:

Application of Coastal States Gas Producing Company for a dual completión, Lea County, New Mexico.

CASE NO. _2903_

BEFORE: MR. ELVIS A. UTZ, ENAMINER

TRANSCRIPT OF HEARING

MR. UTZ: Case 2903.

MR. DURRETT: Application of Coastal States Gas Producing Company for a dual completion, Lea County, New Mexico.

MR. BRATTON: Howard Bratton on behalf of the applicant. We request the case be continued to the October 30th docket. Seems to be a little typuble in connection with the completion of the well, and they would like to rejout a continuance to october 30th.

MG. 684: Case 2007 will also be a ableach to veither Jour.



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service

Phone 243-6691

New Mexico

Albuquerque,

Suite 1120 Simms Building

STATE OF NEW MEXICO X
COUNTY OF BERNALILEO X

I, NOY D. MILKINS, Notary Public in and for the County of Bernalillo, State of New Memico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Memico 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.

WITNESS my Hand and Seal of Office, this 4th day of December, 1963.

MOTANY PUBLIC

My Commission Expires: September 5, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2703.

neard by as commission Examiner Rew Mexico Oil Conservation Commission

Docket No. 30-63 Docket No. 31-63

DOCKET: EXAMINER HEARINGS OCTOBER 18, 1963, AND OCTOBER 30, 1963

BOTH HEARINGS 9:00 A.M. OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

Examiner: Daniel S. Nutter; Alternate Examiner: Elvis A. Utz

DOCKET NO. 30-63 - OCTOBER 18, 1963:

CASE 2910: (Continued from the October 9, 1963, examiner hearing)

Application of Big (6) Drilling Company for extension of an existing oil pool and special pool rules. Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the Scharb Bone Spring Oil Pool to comprise the W/2 of Section 5, all of Section 6, and the N/2 of Section 7, Township 19 South, Range 35 East, Lea County, New Mexico, and for special rules therefor, including 80-acre spacing and proration units to comprise any two contiguous 40-acre tracts, and for fixed well locations.

DOCKET NO. 31-63 - OCTOBER 30, 1963:

CASE 2678: (Reopened and continued from the October 9, 1963, examiner hearing)

In the matter of Case No. 2678 being reopened pursuant to provisions of Order No. R-2359, which order established temporary 160-acre proration units for the East Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.

CASE 2903: (Continued from the October 9, 1963, examiner hearing)

Application of Coastal States Gas Producing Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Gulf State Well No. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, Lea County, New Mexico, to produce oil from the Double-A Abo Pool and an undesignated Lower Leonard pool through parallel strings of tubing.

CASE 2921:

Application of Robert G. Hanagan for a non-standard gas preration unit. Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard gas proration unit comprising the S/2 SW/4 of Section 1 and the N/2 NW/4 of Section 12, Township 12 South, Range 34 East, Four Lakes-Devonian Gas Pool, Lea County, New Mexico, to be dedicated to a well to be drilled 660 feet from the South and West lines of said Section 1.

PAGE -2-

Docket No. 30-63 Docket No. 31-63

CASE 2922:

Application of Consolidated Oil & Gas, Inc. for an unorthodox location and a dual completion. Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its dicarilla No. C-1-11 to produce gas from the Blanco Mesaverde and Basin Dakota Gas Pools. Said well is at an unorthodox Blanco Mesaverde Pool location 890 feet from the South line and 990 feet from the East line of Section 11, Township 26 North Range 4 West, Rio Arriba County, New Mexico.

CASE 2923:

Application of Cities Service Oil Company for a special gaslift gas allocation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce Blinebry gas from its State "S" Well No. 1 located in Unit E of Section 15, Township 21 South, Range 37 East, Lea County, New Mexico, and to utilize said gas for Hare Pool gas-lift operations on its State "S" Well No. 4 located in said Unit E. Gas produced from said State "S" Well No. 1 would be metered and charged to the Blinebry Oil Pool casinghead gas production from applicant's State "S" Well No. 6 also located in the said Unit E.

CASE 2924:

Application of Socony Mobil Oil Company for a dual completion and for a tubing exception. Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its State Bridges No. 58-DD in Unit M of Section 24, Township 17 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum Glorieta and Vacuum Blinebry Oil Pools through parallel strings of tubing. Applicant further seeks an exception to Commission Rule 107(d)4 to produce the Glorieta formation through the casing-tubing annulus from perforations at approximately 6000 feet up to 2 3/8-inch tubing landed in a dual packer at approximately 4020 feet.

CASE 2925:

Application of Sunray DX Oil Company for the creation of a Strawn Gas Pool and for Special Temporary Pool Rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Strawn Gas Pool for its New Mexico State "AH" Well No. 1, located in Unit K of Section 30, Township 18 South. Range 23 East, Eddy County, New Mexico. and the establishment of temporary pool rules therefor, including a provision for 640-acre provation units and for fixed well locations.

PAGE -3-

Docket No. 30-63 Docket No. 31-63

CASE 2926:

Application of Sinclair Oil & Gas Company for an exception to Order No. R-1670, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order permitting its Barber Gas Unit Well No. 1, located in Unit E of Section 8, Township 20 South, Range 37 East, Eumont Gas Pool, Lea County, New Mexico, to produce 600 MCF of gas per month in exception to the shut-in provisions of Rule 15(A) of Order No. R-1670, Southeast New Mexico Gas Pool Rules, said gas to be utilized in the oil well gas-lift system on applicant's B. J. Barber Lease.

CASE 2927:

Application of Skelly Oil Company for gas commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 21(A) of Order No. R-1670, Northwest New Mexico Gas Pool Rules, to permit the commingling of gas produced from its Jicarilla "C" Wells Nos. 3, 7, 4, 8 and 6, located in Units K and P of Section 21, Unit A of Section 28 and Units E and J of Section 27 respectively, Township 25 North, Range 5 West, South Blanco-Pictured Cliffs Pool, Rio Arriba County, New Mexico, allocating said gas to the individual wells on the basis of periodic testing. Applicant further proposes to meter said commingled gas and to commingle it with commingled casinghead gas produced from seven Otero-Gallup oil wells on its Jicarilla "C" lease.

CASE 2928:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State of New Mexico "O" NCT-1 Well No. 14, located in Unit J of Section 36, Township 17 South, Range 34 East, Lea County. New Mexico, to produce oil from the Vacuum-Wolfcamp and North Vacuum-Abo Pools through parallel strings of 2-7/8 inch casing and to produce oil from the Vacuum-Blinebry Pool through 1-1/2 inch tubing run inside 3-1/2 inch casing, all casing strings to be cemented in a common well bore.

CASE 2929:

Application of Texaco Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Basal San Andres formation through its State of New Mexico "O" NCT-1 Well No. 12 located in Unit J of Section 36, Township 17 South, Range 34 East, Vacuum Field, Lea County, New Mexico.

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Docket No. 30-63 Docket No. 31-63

CASE 2930:

Application of William G. Ross for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the South Wilson Deep Unit Area comprising 3,920 acres, more or less, of State and Fee lands in Township 21 South, Range 34 East, Lea County, New Mexico.

State of New Mexico Oil Conservation Commission

325-1182 DEARNLEY-MEIER REPORTING SERVICE, MANTA PR. N. M.

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION

Santa Pe, New Mexico Sectober 30, 1963 1930 NOV S AM 2

EXAMINER HEARING

(Continued from the IN THE MATTER OF: October 9, 1963, examiner hearing) Application of Coastal States Gas Producing Company for a dual completion, Lea, County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Gulf) Case No. 2903 State Well No. 1, located in Unit F of Section 20, Township 17 South, Range 36 East, Lea County, New Mexico, to produce oil from the Double-A Abo Pool and an undesignated Lower Leonard pool through parallel strings of tubing.

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING



Mexico Suite 1120 Simms Building

MR. NUTTER: Call the next case, 2903.

MR. DURRETT: Application of Coastal States Gas Producing Company for a dual completion, Lea County, New Mexico.

MR. BRATTON: Howard Bratton on behalf of the Applicant We have two witnesses.

(Witnesses sworn.)

CARROLL STATON

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

DIRECT EXAMINATION

BY MR. BRATTON:

- Will you state your name and by whom you are employed and in what capacity?
- I am Carroll Staton, employed by Coastal States Gas Producing Company as a geologist.
- Have you previously testified before this Commission as an expert witness?
 - Α Yes.
- Are you familiar with the area and matters under consi-Q deration in this application?
 - A Yes, sir.
- Is Coastal States asking in this application for the definition of two pools and parmission to dual complete in these two separate pools?
 - Yes, sir.



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Building Albuquerque, New Mexico

Suite 1120 Simms

MR. BRATTON: Are the witness' qualifications acceptable MR. NUTTER: Yes, sir, they are.

Q (By Mr. Bratton) Refer to your Exhibit No. 1 in the folio, if you will, please.

A This is a plat of Township 17 South, Range 36 East, a reproduction of a map prepared by the Commission geologist in Hobbs, Mr. John Runyan, locating the Double-A Abo Pool with respect to the Abo reef trend.

Coastal States location is designated by red and a red arrow in the Southeast Quarter of the Northwest Quarter of Section 20 of this township.

Q It's in this well that we're asking for the definition of an Upper Abo and Lower Abo Pool and permission to dually complete in those two pools, is that correct?

A Yes, sir, that is correct.

Q Turn then to your Exhibit No. 2 if you would, please. Would you explain what that is and what it reflects?

Merely a structural map prepared using a Bone Spring marker, using the well control in the area and logs that are available from commercial sources, showing that Coastal States No. 1 Gulf State is located structurally low to two wells in the area and high to one; just a relationship among the wells in the area.

Q Does that indicate also the line of the cross section, which is the next exhibit?



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A Yes, sir, it does.

Q Let's turn then to your next exhibit. Reflected in the lower left is the line of the cross section, which is actually a zigzag line through the four wells that are completed in this area, is that correct?

A No, sir; from the Gulf well, which is a dry hole, to the Sunray lX to our No. 1 Gulf State to the Sunray 2X.

Q Your dry hole is your first log on the cross section, is that correct?

A Yes, sir, it is.

Q Then explain what the cross section reflects, please.

A The cross section is a cross section made from logs available commercially, showing structural relationship between the Gulf well which is dry, the Sunray lX, our Coastal States well, and the Sunray 2X. The Bone Spring marker that this area was contoured on is shown in red; perforations in the lX are shown; the two zones that Coastal States has perforated are shown in our well, and the zone perforated in the Sunray 2X is shown in red.

Q Now referring to your well, you show perforations from what intervals?

A From 9,007 to 27; from 9,210 to 26.

Q These are the two separate reservoirs that you are talking about in this area?

A Yes, sir. These are the reservoirs that we will refer



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Q Refer then to your next three exhibits in order, which are, first, a sonic log, a laterlog, and a microlaterlog, and explain what those show to you as a geologist, Mr. Staton, as to these two pools.

A This set of logs was run to our total depth by Schlumberger Well Surveying Corporation. The sweep of logs from the sonic through the microlaterlog tend to show us the porosity, the fluids that we have in our well bore.

Q What does your sonic log show you?

A In the reservoirs that we are discussing, if you'll refer to the 5-inch log from 9,002, approximately, to 32, approximately, our gamma ray would indicate that the lithology in this zone is a clean dolomite section similar in character to a clean dolomite section at 9210. Between these zones our lithology is a silty dirty carbonaceous section that exhibits no porosity, and as our fluid logs would indicate, no fluids.

Q Is that what your laterlog and your microlaterlog show?

A Yes, it is.

Q Would you refer to those and the intervals that show that?

A on our laterlog and microlatero-surveys between 9,090 to 9,190, there is a zone of infinitely resistive material that would indicate to me that there is no fluid over this 100 plus



feet of interval.

- Is there anything else you care to testify to in connection with these logs?
 - No, sir.
- From your analysis of this information, is it your Q conclusion that these are two separate reservoirs separated by an impermeable section?
 - Yes, sir.
- Is there anything further you care to state in connec-Q tion with any of your exhibits, Mr. Staton?
 - No, sir.
- Were these Exhibits 1 through 4 prepared by you or under your supervision?
 - Yes, sir, they were.
- MR. BRATTON: We have nothing further from Mr. Staton at this time.

MR. NUTTER: Are there any questions of Mr. Staton? CROSS EXAMINATION

BY MR: NUTTER:

- Mr. Staton, did you actually get any logging in the lower section, the 9214 to 9224?
- Yes, sir, we have complete sweeps there. As you will notice, the gamma ray curve does not begin until 9209. This is because the tool just will not measure any closer to the bottom of the hole.



New Mexico Albuquerque,

Suite 1120 Simms Building

What was the actual total depth at the time these logs were run?

Α 9229.

9229. Have you studied the other wells that are completed in this area and determined which of these two pays they are completed in?

It's significant to me that Sunray has a producing section in the 1-X at approximately 9,000 feet.

Is that the equivalent of your upper pay here?

I wouldn't state that it is. I do not know that.

Would it be an equivalent of the lower pay?

I just make the comment that the lower pay in the 2-X is below 9200 feet.

Now the Sunray's 2-X, is that the well that's on your Q cross section?

Both wells are on the cross section.

We have first the Gulf dry hole.

Gulf and then the 1-X.

MR. PORTER: Is it possible that it wouldn't be equivalent to either one?

There is that possibility. We're dealing in an area where lateral facies changes are very rapid. As you will notice, the Gulf well is our north offset. They were incapable of producing from this well from either a 9,000-foot reservoir or a 9200-foot reservoir.



Q Well, now, on your cross section the first well is the Gulf dry hole; the second well is the Sunray 1-X.

- A Yes, sir.
- Q On this cross section at approximately, well, just below 9,000 we have some red interval marked there. Is that the interval that this Sunray well is perforated?
 - A Yes, sir, it is.
- Q What is the actual perforated interval of the Sunray well?
- A Below 9,000; I do not have those at my fingertip, but they have perforated to 9,060.
 - Q 9060 is their deepest perforation?
 - A Yes, it would appear as such.
- Q Now, the next well on the cross section is the subject well of this hearing?
 - A Yes.
- Q And at 9214 we have the lower set of perforations in the subject well?
 - A Yes, sir.
- Ω That would be the equivalent of the perforations in the Sunray well on the two logs, would it not?
- A I wouldn't correlate them across. I would say that I have a reservoir at 9200 and the 2-% of Sunray's has a reservoir at 9200. I have a reservoir at 9,000 and Sunray has a reservoir at 9,000.



Where is their reservoir -- well, Sunray is running Q a couple of hundred feet higher than you, aren't they, or \bar{a} hundred or so?

As you will notice again on the Abo reef trend map prepared by Mr. Runyan, that he has correlated the upper zone in the 1-X with the zone, the reservoir in the 2-X, Referring again to the first illustration, you will notice there is a rapid structural loss there between the Sunray 1 and the Sunray It is significant to me that the Sunray l is producing from below 9,000 feet and the 1-X, we are producing from below 9,000 feet. The Sunray 2-X is producing from below 9200 and we are capable of producing below 9200, strictly on vertical depths.

What's the next well on the cross section? That's Sunray --

Α 2-X.

-- 2-X?

Our east offset.

We have one perforated interval there approximately Q 9220, is it, to 30?

Yes, sir, approximately.

What does that correlate to as far as either of these other wells is concerned?

This is below 9200 feet. I wouldn't correlate the zone.

In other words, you haven't correlated any of those zones in any of these wells to any zone in any of the other wells?



Not a direct correlation, no. Q

The only thing you have correlated is the Bone Spring marker from one well to the other? Yes, sir.

MR. NUTTER: Are there any other questions of Mr. Staton? He may be excused.

(Witness excused.)

called as a witness, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. BRATTON:

Will you state your name, by whom you are employed and in what capacity? Α

My name is Perry Barham. I am production superintenden for Coastal States was Producing Company.

Are you familiar with the matters under consideration in this hearing and the subject area? Yes, sir.

Har you previously testified before this Commission as Q. an expert witness? \hat{L}_{k} Yes, sir.

IR. BRATTON: Are the witness' qualifications acceptable? MR. MUTTER: Yes, sir, they are.



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Albuquerque, New Mexico Suite 1120 Simms Building

Referring to the next exhibit, Mr. Barham, which is Q the well summary of the Gulf State No. 1, the subject well, is that exactly what it indicates, a summary of all of the drilling of this well?

- Yes, sir, chronological.
- On what page do we get to the completion of these two formations?
 - On page 3, that is the start.
 - That's at where now?
 - August 1st.
 - August 1st. What does that indicate, Mr. Barham?
- Α The first sign, first indication of oil, and we run a drill stem test on it.
- Is that the formation that we designate as the Upper Abo?
 - Α Yes, that is correct.
- Then over on page 4 on August 6, is that when you came Q into the Lower Abo and ran a drill stem test on it?
 - Right, that is correct. Α
 - The results of those tests are indicated? Q
 - Yes, sir, that is correct. A
- Is there anything else significant about the rest of the drilling report?
- Our completion procedure on the lower zone on August 13th.



What was that?

13th and 14th. It was perforated and acidized and Α potentialed, the lower zone, for 194 barrels of oil per day and no water, flowing after acidizing.

Now turn to your next exhibits, Mr. Barham; one of them is your request for allowable which is on file with this Commission, is that correct?

That is correct.

And the next one is the application for dual completion which is on file with this Commission?

That's correct.

Showing the intervals requested for the dual completion. the two formations?

Yes. Α

Turn to your next exhibit; is that your Form C-103 Q showing where you ran your packer leakage test?

A Correct.

We'll get into that later in the exhibits. \circ

A Yes.

Your next exhibit, Mr. Barham, is that merely a repeat of the ownership map of the area?

That is correct. A

Which will correlate with the letters later in the folder showing that all offset operators have indicated they have no opposition to this application?



Albuquerque, Suite 1120 Simms Building

- Is your next exhibit merely your deviation survey that Q you filed with the Commission?

 - Turn to your next exhibit, Mr. Barham, which is the That's true. schematic diagram of the installation in this well. Would you go through that and explain what it is and what it reflects?

It is a dual, standard dual completion with a packer set at 9175 above perforations 9214 to 9224, over the Lower Abo perforations with a one-inch vent string coming to the surface for pumping purposes only. We have seating nipple set at 9036 on the lower section, and we have 2-1/16 N-80 of dual string, of 2-1/16 N-80 tubing, one is set at 9175 and the other is set at

We have surface water protected with 13-3/8ths at 380, 9040. protective string of 8-5/8ths set at 3512 and 5-1/2 set at 9225. Suite 1120 Simms Building

- Is there anything unusual about this method of dual completion or the installation of it?
 - No, sir, it's standard.
- In your opinion, is it satisfactory to prevent any \mathbf{A} communication between the two formations?
 - Yes, sir.
 - Is there anything else you care to say about the \bigcirc installation?

no, sin.



DEARNLEY, MEIER, WILKINS and CROWNOVER

General Court Reporting Service

Albuquerque, New Mexico Suite 1120 Simms

Turn to your next exhibit. Is that merely your Q packer setting affidavit?

- That is true. Α
- Turn to your next two exhibits which are the, I believe Q the bottom hole pressure records on the Upper Abo and the Lower Abo?
 - Yes, sir. Α
- Would you go through those and explain what they are and what they reflect?

These are the packer leakage test, bottom hole pressure producing pressures of the two pools. On the first one you'll have to look at the next set of data which goes with this, which is the chronological pressure data sheet. The first one, the first graph is with the bottom in the Upper Abo, upper section, swabbing the lower section, run in and we had a bottom hole pressure of 1431, no change in it while we were swabbing the lower section at a datum of minus 5275.

The upper section with the bomb in the lower section and swabbing in the upper section, we had a 1080 bottom hole pressure at a minus 5125.

- This is reflected, all this data is reflected on your packer leakage test which follows the two graphs, is that correct?
 - TA. That is correct.
 - And this is your tests which were witnessed by Mr. Ramey! \circ



Is that

DEARNIEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service

Albuquerque, New Mexico Suite 1120 Simms Building just a recapitulation of the same? Yes, chronologically proving that there is no communication

Turn then to your next exhibit, Mr. Barham.

tion in the -- no apparent communication in the two pools, with the upper zone having been shut in at 1431 and swabbed for six hours on the lower section. We had no change in our bottom hole pressure in the lower zone.

We swapped the bomb and put it in the lower section and started swabbing the lower section. We got a continuous buildup in the lower section while lowering the fluid level in the upper section.

- Which indicates to you that they are two separate reservoirs with no communication?
 - Α Yes.
- Turning to your fluid in the two pools, what are the gravities of those two fluids?
- Well, in the upper section, the gravity is 36 degrees at 60 degrees Fahrenheit; in the lower section it's 33 gravity at 60 degrees Fahrenheit.
 - Do you have with you samples of those two fluids?
- A Yes, this is the lower section, this is the upper section, taken this last week.

MR. DRATTOR: For the Commission's archives, we would Like to submit these two fluids.

(By Mr. Bratton) What's the difference in the fluids



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Desides the gravity?

Well, one of them is a dark brown in the lower section; in the upper section it is a light brown. The lower section has some H2S present in it and the upper section is sweet gas.

- In other words, the lower section is a sour crude and the upper section is a sweet crude?
 - Α Right.
- Q Is this further proof to you that these two reservoirs cannot be in communication?
 - Α True.

MR. NUTTER: Which was the sweet and which was the sour again?

Α The lower section, the dark one is the sour crude and the lighter oil is the sweet crude. The one on the right is the upper section and the one on the left, my left, is the lower section.

MR. BRATTON: If the Commission desires, we'll take back the fluid from the lower section so that the sulphur won't permeate the whole Commission.

- (By Mr. Bratton) Your last exhibits, Mr. Barham, are Q letters from all of the offset operators indicating that they have no objection?
 - That is true.
- Mr. Barham, from the pressure tests which have been run and from the difference in crudes, what is your conclusion as to



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whether or not these are two separate reservoirs?

They are definitely two; I think they are definitely two separate reservoirs.

The method of completion in the well, dual completion Q in the well, is that in your opinion satisfactory to prevent any communication between the two reservoirs?

Yes. Α

In your opinion will the granting of this application be necessary in order to prevent waste and protect the correlative rights of Coastal States?

Yes.

These last set of exhibits that you have just testified about, were they prepared by you or under your supervision?

Under my supervision. Α

MR. BRATTON: We would offer in evidence all of applicant's exhibits and we have no further questions at this time.

MR. NUTTER: We will accept the book and the logs, Mr. Bratton.

> (Whereupon, Applicant's Exhibit No. 1 admitted in evidence.)

MR. BRATTON: Yes, sir.

MR. NUTTER: Does anyone have any questions of Mr.

Barham?

CROSS EXAMINATION



Phone 243.6691

Albuquerque, New Mexico

Suite 1120 Simms Building

Albuquerque,

Suite 1120 Simms Building

BY MR. NUTTER:

- What are these zones presently capable of producing?
- 2-1/16 inch tubing with 1/4 inch pump, pump 75 barrels The upper zone will produce 156 barrels a day with the Α a day. equipment I have in the hole.
 - Is that top allowable for the upper zone?
- Yes, sir. 151 barrels has been granted on the lower zone and it's 151 barrels on the upper zone.
- But the lower zone is marginal as far as the allowable is concerned?
 - Yes, sir. Α

MR. NUTTER: Any other questions of the witness?

- I'm not too sure that that lower zone is marginal as far as the Abo is concerned; it is marginal with the equipment that I have in the hole.
 - (By Mr. Nutter) I see. One thing else, what is the Q top of the cement on the various casing strings?
 - The surface was circulated and I do not have a copy of the top of the cement on the intermediate nor on the long string, but it is on file, the cement bond log is on file with the Commission in Hobbs.
 - Could you, when you get back to your office, check your records and find out what the top of the cement is, particularly on the production string, and let us know, please?

Yes, sir, I sure can,



Phone 243.6691 Albuquerque, New Maxico General Court Reporting Service Suite 1120 Simms Building MR. PORTER: You ran a bonding survey on the well?

Yes, sir. Α

MR. NUTTER: Does anyone else have any questions of Mr. Barham? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Bratton? MR. BRATTON: No, sir, except to take back two of my exhibits.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2903? We'll take the case under advisement and call a fifteen-minute recess.

(Whereupon, a short recess was taken.)

* * * *



Suite 1120 Simms Building

STATE OF NEW MEXICO SS COUNTY OF BERNALILLO

I, ADA DEARNLEY, Notary Public 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.

WITNESS my Hand and Seal this 6th day of November, 1963.

My Commission Expires: June 19, 1967.

> I do hereby ourtiff that the foregoing is a complete record of the proceedings in the Examiner hearing of Case do. heard by me on 10/30 1963.

Examiner, New Mexico Oil Conservation Commission



BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Pe, New Mexico September 25, 1963

HEARING EXAMINER

IN THE MATTER OF:

Application of Coastal States Gas Producing Company for a dual completion, Lea County, New Mexico, seeking approval of the dual completion (conventional) of its Gulf State Well No. 1, located in Unit P of Section 20, TS 17 South, Range 36 East, Lea County, New Mexico, to produce oil from the Double-A Abo Pool and an undesignated lower Leonard pool through parallel strings of tubing.

Case No. 2903

BEFORE: MR. DANIEL S. NUTTER, EXAMINER

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Pe, New Mexico September 25, 1963.

EXAMINER HEARING

IN THE MATTER OF:

Application of Coastal State Gas Producting Co. for a dual completion, Lea County, New Mexico, seeking approval of the dual completion (conventional) of its Gulf State Well No. 1, located in Unit F of Section 20, TS 17 South, Range 36 East, Lea County, New Mexico, to produce oil from the Double-A Abo Pool and an undesignated Lower Leonard pool through parallel strings of tubing.

CASE NO.

2903

BEFORE: DANIEL S. NUTTER, Examiner for the Commission.

TRANSCRIPT OF HEARING

MR. NUTTER: Call Case 2903.

MR. DURRETT: Application of Coastal States Gas Pro-

ducing Company for a dual completion, Lea County, New Mexico.

MR. CHRISTY: Sim B. Christy of Hervey, Dow & Hinkle,

Roswell, New Mexico, and we represent the applicant in this case.

We request that it be continued until the next Examiner Hearing approximately October 9th.

MR. NUTTER: Is there an objection to the continuance of



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Suite 1120 Simms Building Albuquerque, New Mexico Phone 243-6691

2903 to October 9th? The case will be continued to the Examiner Hearing October 9th, 9 a. m., same place.

* * * * * *



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service Suite 1120 Simms Building Albuquerque, New Mexico Phone 243-6691

STATE OF NEW MEXICO

COUNTY OF BERNALILLO I

I, ROY D. WILKINS, Notary Public 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.

WITNESS My Hand and Seal of office, this 12th day of October, 1963.

NOTARY PUBLIC

My Commission Expires:

September 6, 1967

Hew Mexico Oil Conservation Commission



PHONE OR 4-8191 P. O. BOX 385

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION

610 CITIZENS NATIONAL BANK BUILDING

August 19, 1963

To is Tim Kapteins

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Aztec Oil and Gas Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007'-9027', and the lower Leonard formation perforations at 9214'-9224'.

You are respectfully advised that Aztec Oil & Gas Company hereby waives notice and hearing on the application for dual allowable.

Very truly yours,

AZTEC OIL & GAS COMPANY

By / Zacathi Wall

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DOCKET MALLED

EXHIBITS FOR CASE NO. 2903

COASTAL STATES GAS PRODUCING COMPANY

DOUBLE "A" ABO FIELD

LEA COUNTY, NEW MEXICO

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EXHIBITS FOR CASE NO. 2903

COASTAL STATES GAS PRODUCING COMPANY'S APPLICATION

FOR DUAL COMPLETION OF ITS

GULF STATE WELL NO. 1

UNIT F, SECTION 20, TOWNSHIP 17 SOUTH - RANGE 36 EAST

TO PRODUCE OIL FROM

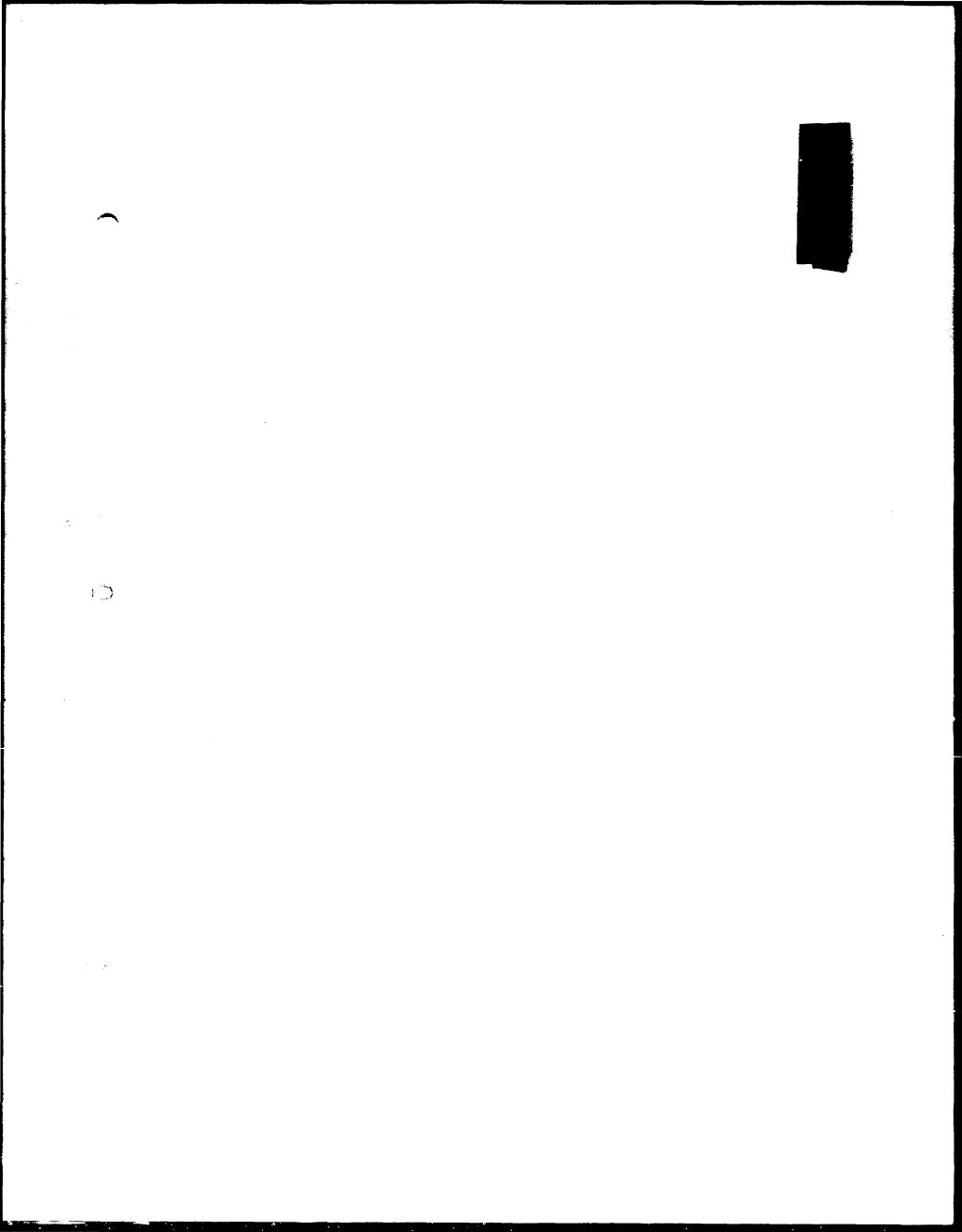
THE ABO DOLOMITE

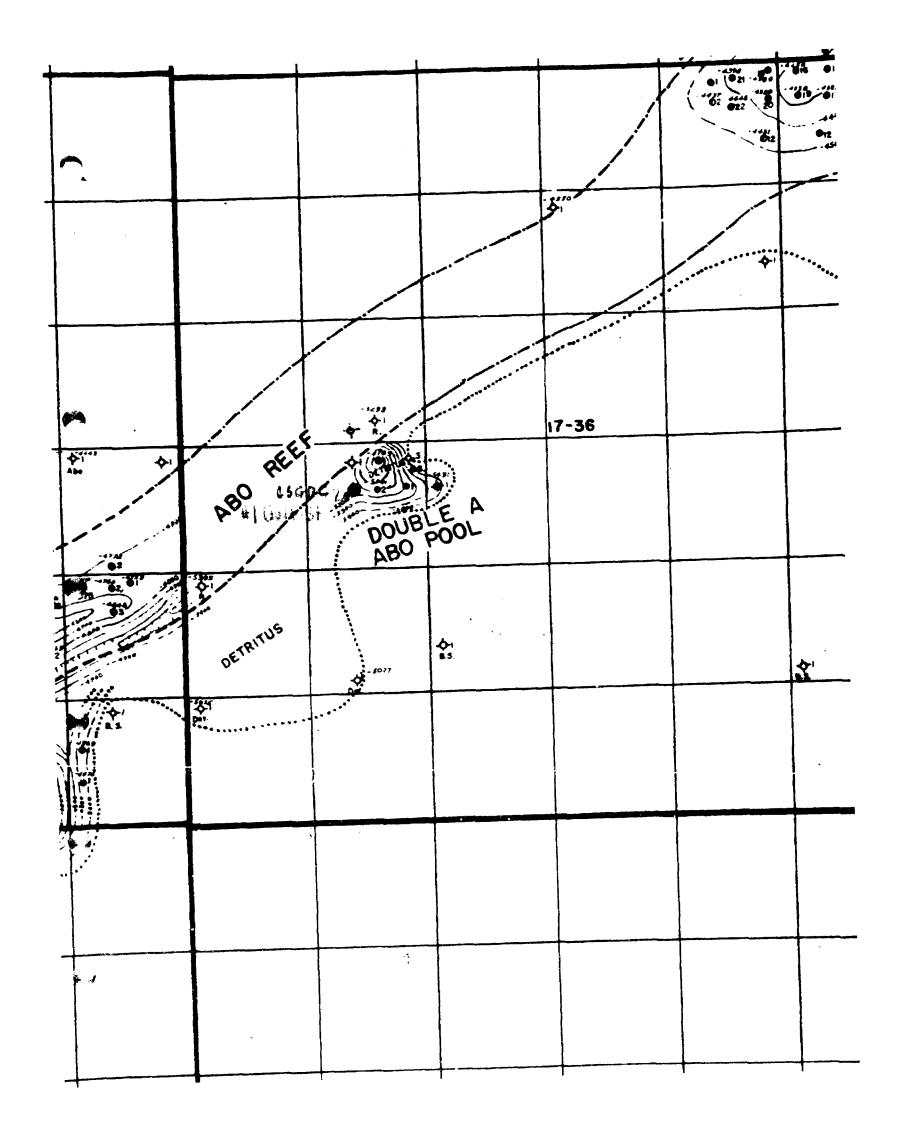
AND

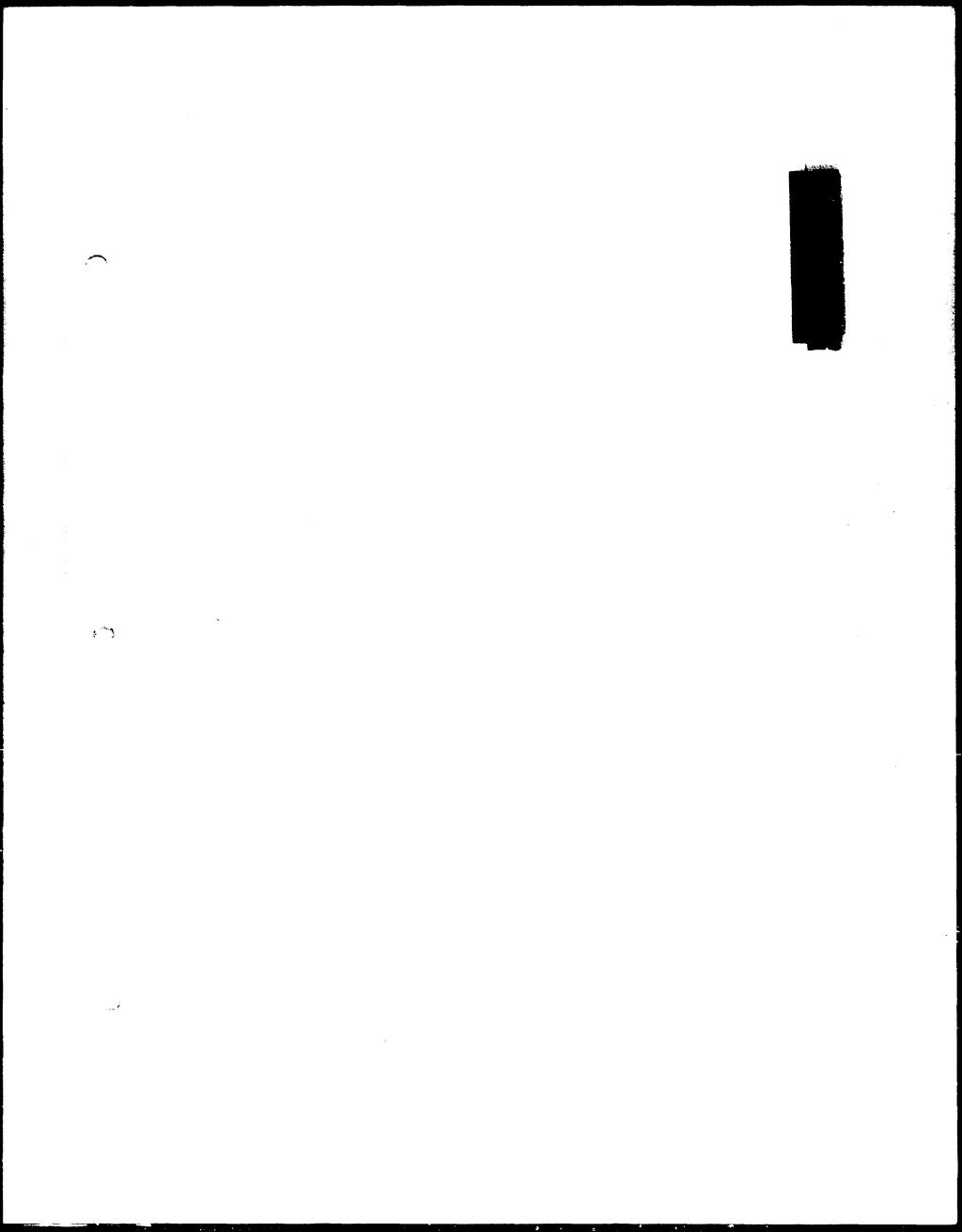
THE LOWER ABO DOLOMITE

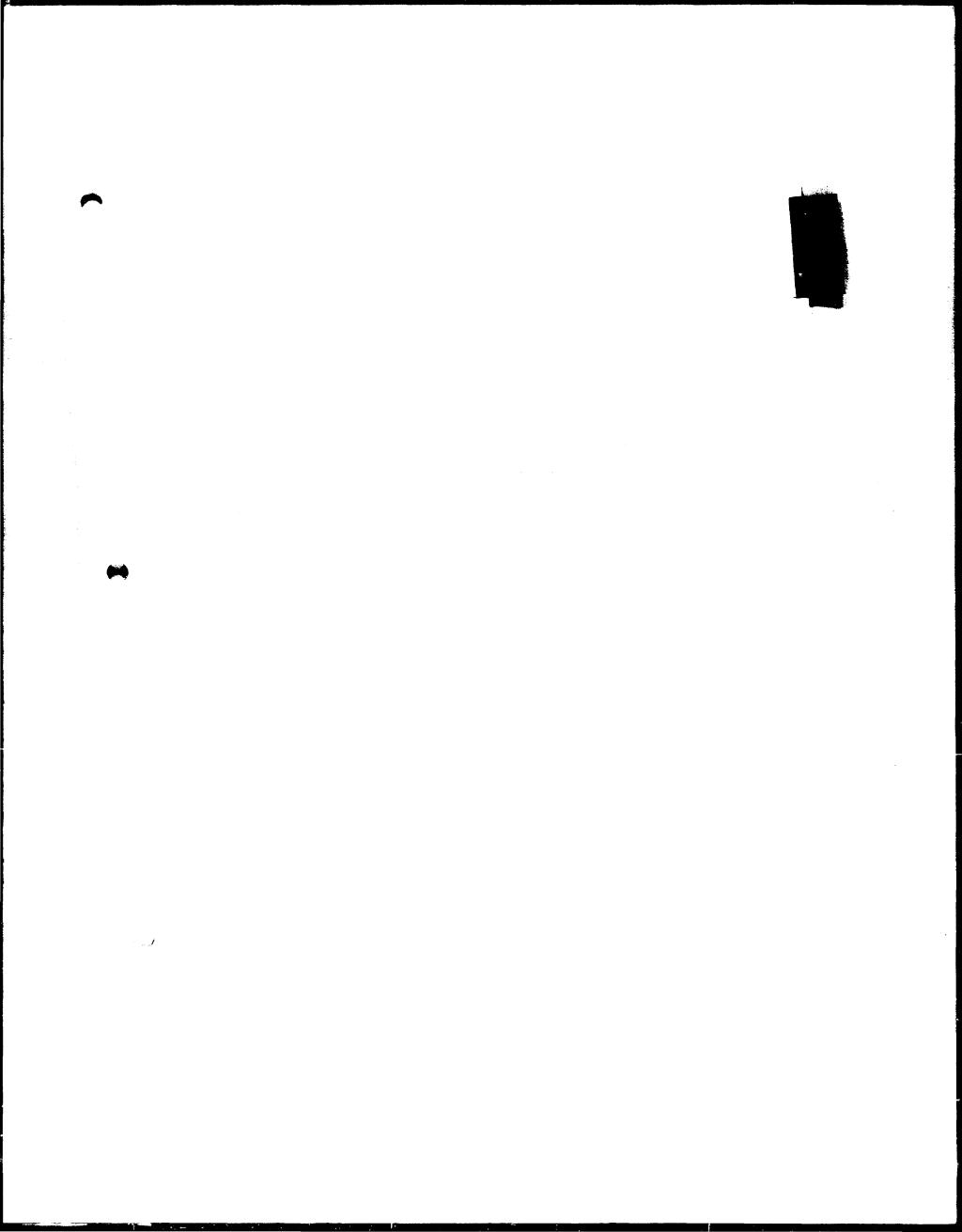
THROUGH

PARALLEL STRINGS OF TUBING









GULF STATE NO.	1 - WELL SUMMARY
SPUD DATE:	5:00 p.m. 6/13/63.
June 14:	TD = 380°. Ran 12 jts (380°) 13-3/8", 8rd, M-40, 48#, Csg set @ 380°. Circulated hole one hour. Ran 275 sks Ione Star Reg cment with 4% gel and 2% CaCl. P-D @ 6:20 this a.m. Cmt did not circulate. Prep to load hole with pea gravel.
June 15:	TD = 380°. WOC = 24 hours. Going in hole now to drill shead.
June 16:	TD = 1724', drlg in redbed. Dev 20 @ 884'. Dev 20 @ 1530'.
June 17:	TD = 2528', making trip for new bit. Formation = anhy and salt. Dev 20 @ 1988'.
June 18:	TD - 3260', drlg in anhy. MW - 10.2, Vis - 32, Dev 3/4° @ 2778'.
June 19:	TD = 3500', drlg in dolo and anhy. MW = 10.2, Vis = 32, Dev 1=3/4° @ 3320'. T/Tates plus 710'. Structural position is flat with 1-X well.
June 20:	TD = 3530', Ran 110 jts (3512.20') 32 & 24#, J=55, 8rd Csg set @ 3526' Cemented with 475 sks cement plus 750 sks Dismix A, 10.8% gel. P=D @ 12:45 a.m. Circualted out 190 sks cement.
June 21:	TD = 3635', drlg in dolo. Drlg w/ water. Nippled up, tested csg to 1000# = o.k. Drlg on bottom @ 11:45 p.m. 6/20/63.
June 22:	TD - 4109', drlg in dolomite, drlg w/water. Everything working 0-K
June 23:	TD - 4400', drlg. Dev 1-3/40 @ 4000'.
June 24:	TD - 4740', drlg in dolo. Dev 3/40 @ 4560'. Drlg w/water.
June 25:	TD = 49501, drlg in dolomite. Drlg w/ water. Dev 1-10 @ 48341.
Jume 26:	TD = 5285', drlg in dolo. Drlg w/ water. Dev 1-20 @ 5050'.
June 27:	TD = 5408° . Dev $1-\frac{10}{2}$ @ 5366°. Drill pipe sutck 53° off bottom. Prep to spot oil.
June 28;	TD = 5408°. Dropped drill collars in hole. Spent 24 hours fishing. Recovered all but 4 drill collars. Mixing mud = prep to wash over drill collars. (Cause: Hole in drill pipe 1st jt above collar. Failed to locate on 1st trip. Attempted to make connection = pipe stuck. Spotted 75 bbls oil = failed to get oil around bit. Twisted pipe off on top of collars while attempting to back up.)
June 29:	TD = 5450', fishing. Top of fish = 5408'. MM = 9.2, Vis = 35, WL = 9.8, filter cake = just a film. Washed over drill collar and the graft rubber stabilizer was

Washed over drill collar and the graft rubber stabalizer was about 35' above the bit. Pulled out of hole to try to knock it off. June 30:

TD = 5450°, top of fish = 5408°. Fishing for bit, reamer and one collar. Washed over to 5400°, and failed to jar loose. MW = 9.2 Vis = 48, WL = 2. Going in w/ Cutright Shoe to wash over.

GULF ST	ATE NO.	. 1 -	WELL	SUMMARY

Page two

	1963	
	July 1:	TD - 4350', still fishing. Top of fish - 5408'.
	July 2:	Corrected TD = 54081. Washing over reamer.
	ரு ர்க் 3:	TD = 54081, fishing job complete. Recovered all fish = cleaned out hole; looks good. Changing drill pipe out, will resume drig around noon.
	July 4:	TD = 5532', drlg in dolomite. M = 8.0, Vis = 35.
	July 5:	TD = 5820', drlg in dolomite. Dev 1° @ 5535'.
	July 6:	TD = 6270', drlg in dolo. Drlg with water. Dev 1° 8 5862'.
	July 7:	TD = 6500', drlg in dolo. Drlg with water. Dev 1-10 @ 6310'.
	July 8:	TD = 6741', making trip for bit. Formation = dolo and sand. Drlg w/water. Dev 10 @ 6552'.
	INTA 8:	TD = 6927'. Twisted off arill pipe lost 36 collars and 22 jts arill pipe. Prep to run free point indicator.
	July 10:	TD - 6927'. Recovered all fish. Will resume drig this a.m.
a * \	July 11:	TD = 7293'. Making trip for bit.
· ,	July 12:	TD - 7517', making trip for new bit. Drlg w/water.
	July 13:	TD = 7681', tripping for bit. Drlg in dolo and sd. Dev 3° @ 7670'. MW = 8.6, Vis = 33, drlg with brine and water.
	July 14:	TD = 7860', drlg in dolo and chert. Drlg w/water. Dev 3° @ 7730'.
	July 15:	TD = 8140', drlg in dolo and chert, Drlg w/water.
	July 16:	TD = ôlôl', drlg with water. Dev 2° @ 8161'. Drill pipe stuck @ 3 stands and a single off bottom.
	July 17:	TD = 8161. Fishing. Backed off and left 27 drill collars and 1 jt dril pipe in hole. Pulled out of hole, prep to condition w/ mud.
	July 18:	TD = 8161; tripping for bit. Ran in w/ overshot and jars = Jarred fish loose and recovered all of fish. Now going in hole to drill ahead. MW = 9.2, Vis = 34, WL = 40.
	July 19:	TD = 8262, making trip for bit in dolo and chert. MW = 9.5, Vis = 35, WL = 50, 2/32 cake.
	July 20:	TD = 8316'. Making trip in dolo. MW = 9.5, Vis = 35, WL = 20. Dev 3/4° @ 8262'.
.*	July 21:	TD = 8373', drlg in dolo. MW = 9.5, Vis = 36, WL = 35, 2/32 cake.
	July 22:	TD = 8445', making trip in dolo. MW = 9.5, Vis = 36, Dev 2-3/40 @ 8440'.

	Page three
GULF STATE NO. 1 -	WELL BUNNARY
1963,	TD = 8533', drlg in dolo. NW = 9.4, Vis = 34, WL = 44.
July 23:	and chords and chords
July 24:	TD = 8607', making trip in 6010 WL = 12, 2/32 cake. Dev 2-3/40 @ 8600'. WL = 12, 2/32 cake. Dev 2-3/40 @ 8600'.
MJ 25:	WL = 12, 2/32 cake. Dev 2=3/4 TD = 8690', making trip in dolo, lime and chert. Mi = 9.2, Vis = 34, WL = 16, Filter cake = 2/32. Dev 3 @ 8680'. WL = 16, Filter cake = 2/32. Dev 3 @ 8680'.
July 26:	WL = 16, Filter case = 4,500 ML = 9,2, Vis = 37, TD = 8790', Drlg in dolo, lime and chert. MM = 9,2, Vis = 37, WL = 16, 2/32 cake.
July 27:	WL = 16, 2/32 cake. WL = 16, 2/32 cake. TD = 8841', making trip, in = 9.2, Vis = 36, WL = 27, 2/32 TD = 8841', making trip, in = 9.2, Vis =
July 28:	filter cake. Dev 3-1/3 6 conditions and chart. NW = 9.2, Vis = TD = 8877', Making trip in dolo, lime and chart. NW = 9.2, Vis = 34, WL = 27, 2/32 filter cake. Dev 3° 6 8877'.
July 29:	34, WL = 27, 2/32 12200 and chert. MM = 9.2, Vis = 35, WL = 15, TD = 8914, drlg in dolo and chert. MM = 9.2, Vis = 35, WL = 15, 2/32 cake.
101A 30:	2/32 cake. TD = 8943', drlg in dolo, lime and chert. Mi = 9.3, Vis = 34, WL = 23, 2/32 cake. Dev 3 @ 8914'. WL = 23, 2/32 cake. Dev 3 @ 8914'.
July 31:	WL = 23, 2/32 care. Det J = 8986 = 9006 Abo, GTS = 14", Now taking Drill Stem Test #1 = 8986 = 9006 Abo, GTS = 14", Flowing to pit.
Aug. 1:	Drill Stem Test No. 1: 8986 = 9006' T. C. = 30", T. O. = 3 hours, T. C. = 45". GTS = 15". No fluid to surface. Reversed out 27 bbls clean oil, Recovered 90' very heavy oil and Gas cut Mad. Recovered 90' very heavy oil and Gas cut Mad. INN = 4496. Bottom Wole Temp = 181 F.
Aug. 2:	TD = 9093', drlg in dolo and lime. MW = 9.3, V18 = 30, 0001 to 9034' (33'). 2/32 cake. Dev 3-3/4 @ 9070'. Abo Reef Pay = 9001 to 9034' (33'). Avg. 6" per ft drlg time through Pay. Freparing to drlg to 9232'.
Aug. 3:	(Low proven Peris in Alea). TD = 9131', drlg. MW = 9.2, Vis = 38, WL = 13, filter cake 2/32. TD = 9131', drlg. MW = 9.2, Vis = 38, WL = 13, filter cake 2/32. Dev 3-3/4° @ 9070'.
Aug. 4:	Dev 3-3/4 @ 9070. TD = 9131', drlg in dolo and lime. Mw = 9.2, Vis = 37, WL = 12, 2/32 filter cake. Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to 9220 to
Aug. 5:	9.2. Vis - 36, WL - 10, 2/32 filter cake. Dev 3-37
Aug. 6:	shut in for pressures. TD = 9233', logging. Went back in and drilled 13' of new hole, Pulled out at 12:30 a.m. this morining. Out at 12:30 a.m. this morining. Drill stem Test #2 = 9200 to 9220'. Tool opened 3 mins w/ strong blow Drill stem Test #2 = 9200 to 9220'. Tool opened 3 hours w/ a good blow Gas air to surface. Shut-in 30 mins = opened 3 hours w/ a good blow Gas

1963

Aug. 6:

(Continued) immediately shut in 45 mins.

FSIP - Gas to surface in 10 mins Oil to surface in 165 mins.

Reversed out 40 b.o. and no water.

IM = 4460#, ISIP (30) = 3488#, IFP = 451#, FFP = 1341#, FSIP (45) = 3146# building, FM = 4444#, Bottom hole temp = 191° F. Grude 37° Gravity dark, H₂S = slight.

Aug. 7:

TD - 9233'. Circulating. Waiting on 5-2" Cag.

Aug. 8:

WOC. TD = 9233'. Ran and cmt 285 jts (9225.38') 5=\frac{1}{2}" OD, 17 & 15.5\frac{1}{2}, J=55 & N=80, New smls casing set @ 9232.78'. Cmtd w/ 600 Cubic ft of 1=1 Diamix. P=D @ 10:41 p.m. WOC = 4 hours. Cut off csg and nippled up. Waiting on 2=3/8" Tbg.

Aug. 9:

Moving drlg rig off location.

Aug. 10:

Tore down set out of way. Prep to move in completion unit.

Aug. 11:

Moved in. Drlg out cmt.

Aug. 12:

TD - 9229'. Ran Gamma Ray Neutron C.L.L. Now running cmt bond logs. Prep to perf 9214 to 9224' w/2 jet shots per ft.

Aug. 13:

PBTD = 9229'. Ran cement Bond logs, showed good cmt to 8100'. Perf 9214 = 9224' w/ 2 jet shots per foot. Ran and landed 299 jts 2" EUE, 8rd smls Tbg @ 9218'. with Pkr @ 9154'. Swabbed 33 b.l.w. per 4 hours. Acidized perfs w/500 gals Mud Acid. Formation broke down at 5050 to 4500 and acidized @ 4500# @ 0.8 RPM. ISIP = 4000#, 30 Mins = 900#. Prep to swabb.

Aug. 14:

Allowable on Zone (9214 - 9224) 141 BOPD.

Total load - 6 bbls Acid (Mud Acid) water

36 bbls flush (fresh) water

42 bbls water

Swabbed and flowed 42 bbls of water (load) in 4 hours; then flowed 33 b.o. in 4 hours on 22/64" choke. FTP = 180# (7-8 b/hr) as of 2:00 p.m. 8/13/63 Testing. Flowed 136 b.o. in 17 hours on 24/64" choke, FTP = 75#-100#. Cut 5/10% BS&W. GOR 1115-1. POTENTIALED == 192 b.o. per day no water. (212 MCF/day)

Aug. 15:

Flowed 88 b.o. no water in 10 hours. On 20/64" choke, FTP - 100#. Killed well with 50 bbls lease oil. Pulled out with tbg. Ran and set Baker Retrievable Bridge Plug @ 9090'. Started in hole w/ dump bailer to dump sand on top of plut. Bailer btm failed and released sand, bridging csg @ 8545'. Pulled out w/ bailer. Now running sand pump to clean out sand bridge.

Aug. 16:

Ran in w/ bit and washed out Bridge @ 8545'. Ran 9090' Plug O.K. Pulled out of bhole w/ bit. "Go Services" dumped 2 sks 20/40 sd on plug and perfore ted. 9007-9027' w/l jet shot per foot. Ran and landed Baker Full

1963

Aug. 16: (Continued) Bore cater @ S947' w/ end of the @ 9016'. Swabbed the dry. Dowell acidized perf w/1000 gals Mud Acid. Spotted acid over perfs. FBD @ 3700#, acidized 3650 @ 2.1 BPM. ISIP = 3000#. 10" SIP =

2000#. Job complete @ 2:30 p.m.
Swabbed 33 b.w./3hours. FL @ 4500'. Recovering 100% Acid Water. Rec

33 bbls of 65 bbls load water.

Aug. 17:

Swabbed 63 bbls load water in 6 hours; then swabbed 33 bbls oil, no water in 6 hours. Dowell Acidized perfs v/6000 gals FIAX-2 Acid and flushed v/35 bbls water. Pumped acid into formation @ 5200# @ 4.4 EPM.

ISIP - 3500#; 10 Min SIP - 2900#; one hour - 1750#. Swabbed 88 bbls water @ 2000*.

Aug. 18: Swabbed 15 bbls acid water and 108 bbls new oil in 18 hours. FL = 6000¹. Put on 20/64" choke for 6 hours. Well flowed 3 bbls oil in 1 hour and died.

Aug. 19: Well made 33 b.o. and 15 bbls acid water in 12 hours. Attmpt to run tracer survey. Unable to get through Seating Nipple w/ tool. Prep to pull tbg and re-run tracer this a.m. Have 106 bbls out of 144 bbls aci water recovered..

Aug. 20: Prep to drlg out cement.

Ran tracer Survey from fluid level to btm leaving well Bore @ 9007 to 9010. and going up to outside of Csg to 8960 to 8970. Squeezed perfs w/ 150 sks Flac cmt. Pumped into formation at 800#. FSP = 500#.

Aug. 21: Prep to re-perforate.

Drilled out cmt to 9070'. Tested Squeeze job 2500#. Pulled out of hole with tbg and bit.

Aug. 22:

Swabbing

Acidized perfs with 500 gals Mud Acid. Formation broke down @ 4500# @

2.2EPM. ISIP - 3800#, 15" SIP - 2700#. Swabbed 88 bbls fluid in 11 hours

FL @ 8500'. Swabbing at the rate of 1 EPH with good show of gas.

Acidized perfs with 2500 gals FIAX-2 @ 4900 to 4500 @ 4.6 EPM. ISIP
3500#, 15" SIP - 2650. Total load - 60 bbls acid and 40 bbls flush oil.

Aug. 23: Swabbed 66.24 bbls fluid in 24 hours. Cutting 15 to 25% Acid water. Swabbed total 140 bbls fluid, being 100 b.w. and 40 b.o. Grav - 35.20 @ 800 F. Chlorides - 93,000, CaCl - 26,000, Magnesium - 8500. Swabbing this a.m.

Aug. 24:

Swabbing acid water with FL @ 300'. Swabbed 10 b.o. and 3 b.w. in 9 hours
Dowell acidized w/1000 gals Reg 15% NCL w/ M=38 and using 40 perf sealer
balls @ 5900 = 6200 @ 6.2 RPM. ISIP = 3600#, 15" SIP = 3000#. Job
Complete @ 500p.m.

Swabbed 35 b.o. and 104 bbls acid water in 12 hours. FL@ 3000'. Total
load 240 bbls acid and 35 bbls flush oil.

Aug. 25: Swabbing. Swabbed 97 b.n.o. and 30 bbls acid water. FL @ 5500°. Total rec 69 bbls acid water and 197 bbls oil.

GULF STATE NO.	1 - WELL SUMMARY Page six
Aug. 26:	Swabbed 145 bbls fluid/24 hours. Being 104 b.n.o. and 41 bbls acid water. FL @ 2000'. Cutting 5% to 6% water and BS. Gas strong enough that if takes 5 to 10' to each run before they can get back in the hole. Have rec'd total of 301 bbls new oil and 110 bbls acid water out of 240 bbls acid water.
Aug. 27:	Swabbed 33 bbls oil and 8 bbls water in 12 hours. Shut well in for 12 hours. TP = 400#. FL @ 4000!.
Aug. 28:	Swah teating.
Aug. 29:	Laid down the. This a.m. waiting on shipment of pipe to dual well.
Aug. 30:	Well shut down. Waiting on materials.
Sept. 1:	Running in dual string.
Sept. 2:	Swabbed tbg. Brown HS-2 Dual Pkr Set @ 9117', Dual Anchor Set @ 8917' Prep to run Pkr Leakage Test.
Sept. 3:	Swabbed 114 bbls fluid being 68.4 bbls oil and 45.6 bblw in 24 hours Water - load. Flowed 7 bbls fluid in 2 hours - cutting 20% water.
Sept. 4:	Swabbed 63.3 bbls oil and 18.3 bbls water in 20 hours. Cutting 0 to 5% water. FL @ 5000'. Lower Zone Flowed 13 bbls oilin 4 hours. Upper Zone - Started Swabbing.
Sept. 5:	Upper Zone - Swabbed 54 bbls fluid, cutting 40% water in 7 hours. FL @ 5000' and steady. Lower Zone - flowed 6½ bbls oil in 7 hours. Rigged up and loaded annulus and circulated with clean lease oil. Swabbed lower zone to 7000' and steady. Acidized lower zone with 250 gals FLAX-2 as follows: Loaded Tbg with 18 bbls of acid and hit pressure. Pumped 10 bbls acid at 1.7 RPM @ 1300#. Pumping acid at the rate of 3 RPM @ 3900# to 2500#. Completed Acid job @ 4.0 to 3.2 RPM @ 2700 to 3200#. Flushed with 28 bbls lease oil @ 3.2 RPM @ 3200 to 4200#. ISIP - 2500#, 20 min SIP - 0#. Then after job complete; csg pressure and tbg pressure equalized @ 2500#. Indicating Par slipped and pumped up to hole. Started swabbing unable to get below 3000'. Prep to check Pkr.
Sept. 6:	Pulled out of hole with both strings of Tog. Loft Pkr in hole @ 9117' Now going in hole with overshot.
Sept. 7:	Ran ove the recovered Btm half of pump bbl and $1 - l\frac{1}{2}$ " Collar which was split. Re-ran overshot rec'd all of fish. Laying down working string. Now going in hole with Dual Assembly.
Sept. 9:	Ran and landed TIW Tension Pkr on 291 jts 2-1/16" Tbg set @ 9149' with dual Tbg anchor @ 8951' on 251 jts of 2-1/16" Tbg. Swabbed 71 bbls fluid in 12 hours, 3% water. FL @ 7500' on lower xone.

Swabbed 95 bbls fluid in 22 hours. Cutting 5% water (15% BS for the pas 8 hours) Good gas in fluid.

Swabbed a total of 123 bbls oil and 40 bbls water.

Now swabbing lower Tbg.

Sept. 9:

GULF STATE NO. 1 - WELL SUMMARY

Page seven

Sept. 19:	Lower Zone - Swabbed 35 bbls fluid in 11 hours; cutting 1% water and 4% BS. Shut in 12 hours. TP - 375%. Upper Zone - Swabbed 87 bbls fluid in 12 hours; cutting 5% water and 10% BS.
Sept. 11:	Lower Zone: Well made 39 bbls fluid in 12 hours, 8% BS, 4% water. FL @ 7500'. Upper Zone: Well made 11 bbls fluid in 1 hour, 2% water, FL @ 4500 - 7000'.
Sept. 12:	Lower zone: Re-acidized w/ 2500 gals Xw-26 6 0 - 400# 6 0.7 HPM. ISIP - 0#. Swabbed 30 bbls loadoil and 21 bbls acid water in 9 hours. Upper Zone: Shut in.
Sept. 13:	Lower Zone: Swabbed 73 bbls fluid in 24 hours. FL @ 7500 . Cutting 5% water. Upper zone: Shut in.
Sept. 14:	Lower zone: Swabbed 68 bbls oil & 12 bbls water with 1% BS in 24 hours FL @ 6500'. Upper zone: Shut in.
Sept. 15:	Lower Zone: Swabbed 75 bbls oil & 4 bbls water in 24 hours. Cutting 2% BS. Upper Zone: Shut in.
Sept. 16:	Lower Zone: Swabbed 75 bbls fluid. FL @ 5600'. Clear Acid water in 9 hours. Acidized perfs 9214 - 9224' w/ 10,000 gals FIAX - 2 w/ W-26 and flushed w/38 bbls lease oil. Total Load 294 bbls. 60 bbls oil and 234 bbls acid. 2600 - 3000# @ 2.2 EPM. ISIP - 2950#, 15 min SIP - 1900#. J.C. @ 7:33.
Sept. 17:	Lower Zone: Swabbed &l bbls oil in 24 hours. FL @ 7000'. Very little gr. Upper Zone: Shut in.
Sept. 18:	Swabbed 99 bbls fluid in 24 hours - being 40 bbls water and 59 bbls oil FL @ 6500'. Rec 229 of 294 total load. (160 Baw and 69 bbls oil)
Sept. 19:	Shut in 8 hours - 800# in 8 hours. Bled down in 20 mins. FL @ 4500'. Made 55 bbls in 16 hours. 5% water. Lower zone. Upper zone: Swabbed 60 bbls in 8 hours - no water - FL @ 5000'.
Sept. 20:	Swabbed 39 bbls oil in 12 hours - Lower Zone. Rigged up. Now prep to cut Bull Plug off btm tbg and re-perf 9210 - 9228
Sept. 21:	Swabbed 10 bbls oil in 5 hours. Pulled out of hole w/ dual pkr assembly. Re-perforated 9210 - 14 and 9224 - 28 w/ 4 jet shots per foot. Ran and landed Baker Full Bore Cmtr @ 9100'. Prep to swab.
Sept. 22:	Lower Zone: Swabbed 144 bbls in 24 hours. FL \otimes 6000'. Good gas blow cutting 0 - 8% water and 0 - 4% BS. Upper zone - Shut in.
Sept, 23:	Swabbed 47 bbls fluid in 12 hours. Spotted 12 bbls of fomer Frac Plug 72 bbls acid and 35 bbls flush oil. Pressured up to 1950#. Acid hit broke. Inj rate 4.5 BPM @ 1900#. Shut down instantly on Vaccum. Ran swab found FL @ 6000'. Swabbed 16 bbls in 4 hours. Re-spotted Plug w/12 bbls Former Frac Plug, 48 bblsacid and 36 bbls flush @ 2.8 BPM @ 4400#. ISIP - 3600#. 15 Min SIP - 200#. Swabbed 19 bbls in 2 hours FL @ 5000'. Total load to rec. 120 bbls acid water 24 bbls Former Frac Plug 71 bbls flush oil 215 Total load to recover.

GULF STATE NO.	1 - WELL SUMMARY Page eight
Sept. 24:	Swabbed 174 bbls fluid in 24 hours. Max water cut - 60%. FL & 6000' steady good gas.
Sept. 25:	Swabbed 168 bbls fluid in 24 hours. 4% water. FL @ 2500' in hole. Good blow of gas but not enough to flow.
Sept. 26:	Swabbed 36 bbls oil in 24 hours. FL @ 2500'. Down for repairs - threw Diesel Engine out of Unit.
Sept: 27:	Made 116 bbls in 16 hours. FL scattered from 3000' to TD.
Sept. 28:	Swabbed 167 bbls fluid in 24 hours - FL @ 6500'. Fair gas - cutting 45 water. Setting pumping unit this e.m.
Sept. 29: Sept. 30:	Made 139 bbls oil plus 3.2 bbls water in 24 hours. Swabbing. 154 bbls oil in 24 hours. Cutting 2% water - FL @ 7500°
Oct. 1:	Swabbed 149 bbls oil in 24 hours. FL @ 7700' w/ scattered Pockets to 4700'.
Oct. 2:	Oct. 2 - Pipe on Loc @ 3:09 p.m. Prep to start out of hole @ 8:09 p.m. tonight. Swabbed 142 bbls in 24 hours - Cutting 25 water. 2000' of fluid.
Oct. 3:	Well made 161 bbls oil in 2% Water in 24 hours.
Oct. 4:	Layed down Tbg and Pkr. Now running Dual Assembly this a.m.
Oct. 5:	Going in hole w/ dual assembly. Shut down overnight. Will complete
Oct. 6:	running assembly and will run Pkr leakage test tonight. Ran and landed
•	2 string of 2-1/16" Tbg and 1 string of 1" Ven Tbg SN @ 9174'
	Ran Packer Leakage tests on lower string. O.K. Frep to run test on Upper zone.
Oct. 7:	Prep to start Enginethis a.m. to pump lower zone. finished running packer leakage test on Upper zone. Ran $208 - 5/8$ ", $156 - 3/4$ ", $1 - 10$ ' and $1 - 6$ ' Sub. $1\frac{1}{2} \times 1\frac{1}{4} \times 24$ ' w/ sand cup.

In 12 hours pumped 39 bbls oil. 10 = 120" SPM.

Oct. 8:

NEW MEXICO OIL CONSERVATION COMMISSION (Form C-104) Revised 7/1/57 Santa Fc. New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWARLE

New Well Recompletion

This form shall be submetted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is date.

				t be reported on 15.025 pala	at 60° Fahrenheit. Abilene, Texas 10-16-63
				•	(Place) (Date)
Coast	al St	ates (Gas Pro		R A WELL KNOWN AS: tate, Well No. 1 NE. 1 NW.
		ny or Ope		(1616) 36-17 - 36-17	NMPM, Double "A" Abo
	n Latter		····· Z	, I	ing Sile very
*		t ndicate lo		County. Date Spudded Elevation 3875 GI	6-13-63 Date Drilling Completed 8-6-6 Total Depth 9233' PBTD 9229
-					Name of Prod. Form. Abo
D	C	В	A	PRODUCING INTERVAL -	
E	F	G		Perforations	9007 - 9027'
	x	G .	H	Open Hole None	Depth Casing Shoe 9232 Tubing 9040
				OIL WELL TEST -	
L	K	J	I		Choke bbls.oil,bbls water inhrs,min. Size
M	N	0	.		Treatment (after recovery of volume of oil equal to volume of Choke pls. oil, bbls water in 24 hrs, min. Size Pum
	ļ			GAS WELL TEST -	
<u></u>		<u></u>	تــــــــــــــــــــــــــــــــــــــ		
	(Foor	AGE)	ting Record		MCF/Day; Hours flowedChoke Size
	CHRIDE		STE STE		pack pressure, etc.):
				Test After Acid or Fracture	: Treatment: MCF/Day; Hours flowed
13-3	3/8	380	275	Choke Size Method	cf Testing:
8-5	/8	3512	750	Acid or Fraction Treatment sand): 500 Gals	(Give amounts of materials used, such as acid, water, oil, and MCA & $10,000$ Gals FLAX-2
5-3	5	9232	600	Casing Tubing PressO- Press	O- oil run to tanks August 26, 1963
2-1	/15	9040		Oil Transporter Te	xas-New Mexico Pipeline Company
				Gas Transporter	
Remarks	s:	W.e	ll.com	oleted as an oil.	well.

I h	ereby ce	ertify that	the infor	mation given above is true	and complete to the best of my knowledge.
				, 19	COASTAL STATES GAS PRODUCING COMPA (Company or Operator)
	OIL C	ONSERV	/ATION (COMMISSION	By: (Signature)
D					Tide Production Superintendent
•					Send Communications regarding well to: Name Coastal States Gas Producing Co.
					Address P. O. Box 385, Abilene, Texas

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

Field Name Double A		Abo		County	a	Date 10-1-63
Ntor 12000	Coastal States		Lease	lf State		Well No.
Proc	lucing Company	Section		Township		Range .
of Well	F	j	20	17-	S	36-E
					pletion of a we	ll in these same pools or in the same
	within one mile of the subjec					•
	ver is yes, identify one such				or, Lease, and	Well No.:
	et 18 yes, identity was some	maipace. o				
	North Control of the					
. Inc io	llowing facts are submitted:	ł	Upper	Zose	}	Lower Zone
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	ne of reservoir		Abo) 		Lower Abo
	and Bottom of	1		. As	}	
	ay Section	1	0007 0	0071	-	0014 00041
	Perlorations)			027'		9214 - 9224'
	e of production (Oil or Gas)		0il	<u> </u>		Oil
d. Met	hod of Production					
(1	Flowing or Artificial Lift)		Pumping			Pumping
. The fol	lowing are attached. (Pleas	e mark YES	ot NO)			
					•	
X	o. Diagrammatic Sketch of	the Dual Con	npletion, showing	ng all casing strings, i	ncluding size a	and setting, top of cement, perforated
						and side door chokes, and such other
	information as may be per			6 - 1 - 1		,
X			le on annlicant's	c leace all offcet well	e on offer len	ses, and the names and addresses of
				s lease, all oliset well	s on onser lea:	ses, and the names and addresses of
x	operators of all leases of					
				ch offset operator, or is	a lieu thereot, e	evidence that said offset operators have
v	been furnished copies of t					
	d. Electrical log of the wel	l or other ac	ceptable log wi	th tops and bottoms of	producing zone	es and intervals of perioration indicated
						as provided by Rule 112-A.)
	l offset operators to the leas-					; address.
Axtec	Oil & Gas Compar	му, Р. (0. Box 84	7, Hobbs, Ne	w Mexico	
Sunray	D-X Oil Company	7, P. O	. Box 128	, Hobbs, New	Mexico	•
				,		
Sulf O	il Corporation,	P. O. 1	Box 2167,	Hobbs, New 1	Mexico	
				• • • • • • • • • • • • • • • • • • •		
วาพริก 7 a	Oil & Refining	Company	v P 0	Box 2347, Ho	bbs. New	Mexico
TURBLE	Ott & Relining	Company	,,	DOM 20:177 110.	2227 200	
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	10, 1, box	032, 11	razaria, z			
enn Oi	1 Company B O	Por 9	awang 80	11 New Mari	CO.	
	l Company, P. O.					
	· ·		d and furnished	a copy of this applicat	tion? YES 🔨	NO If answer is yes, give date
of such	notification8-	- <u>19-63</u>				
			~ ~			0
CERTIF	FICATE: I, the undersigned,	state that I	am the Prod	luction Supt.	of the	Coastal States Gas
						ore; and that this report was prepared
	upervision and direction and					
,						

			•			ignature
_	· · · · · · · · · · · · · · · · · · ·					al, the New Mexico Oil Conservation
Co	mmission will hold the appli	cation for a	period of twenty	(20) days from date o	f receipt by the	Commission's Santa Fe office. If,
afc	er said twenty-day period, no	protest not	request for hea	ring is received by the	Santa Fe offic	e, the application will then be processe
IOTE: If t	the proposed dual completion	will result	in an unorthodo:	x well location and/or	a non-standard	proration unit in either or both of the
			, , ,			

producing zones, then separate application for approval of the same should be filed simultaneously with this application.

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103

TRANSPORTES	1 *** 1	.,	MISCELLANEOUS REPORTS ON WELLS					
OFERATOR.		(Submit to	o appropriate	Distric	r Office	as per Cum	mission Rule	1106)
Name of Con			· · · · · · · · · · · · · · · · · · ·	Addres		205	33 3	
	States Gas		ompany				Abilene,	
Lease Gu	lf State		l No. Uni	F	20	Township	17-s	Reage 36-E
Date Work P. 10/6-7		Pool Double				County Le	a	÷
	·		REPORT OF					
Begiani	ing Drilling Operation	e Casio	g Test and Ce	meat Job	• {	Cthet (E:	xplain):	
Plussic	-		lial Work				mpletion	1
Oc	October 6, 1963: Ran and landed 2 string of 2-1/16" Tbg and 1 string 1" Tbg SN @ 9174' Landed Lower string @ 9175.46'. SN @ 9036' Upper string @ 9040.37'. Vent string @ 9175.36'. Ran Packer Leakage tests on lower string. October 7, 1963: Ran Packer Leakage tests on upper string.							
W/		1,	Position			Composi		
Witnessed by	C. Gandy	l."	consulta	int	j	Company Coastal	. States	Gas Producing
-	0. 00	FILL IN BELOW			ORK RI	PORTS ON	LY	Company
ļ ————			ORIGINAL	. WELL C	ATA			
D F Elev.	TD		PBTD			Producing	Interval	Completion Date
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Perforated In	terval(s)							
Open Hole In	terval			1	ng Forma	ution(s)		
ļ	/		RESULTS (of Worl	COVER			
Test	Date of Test	Oil Production BPD	Gas Produ MCFF			roduction PD	GOR Cubic leet/E	Gas Well Potential MCFPD
Before Workover				···				
After Workover					Ì		•	
	OIL CONSES.	ON COMMISSION				y that the inf my knewleds		a above is true and complete
iproved by			·	Name				
Title			· · · · · · · · · · · · · · · · · · ·	Positi		coduction	n Superi	intendent
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Maximum cummulative horizontal deflection calculated from deviation survey readings.

COMPANY: WELL NAME: LEGAL DESCRIPTION:

Coastal States Gas Producing Company Gulf State #1 1980 FNL & 2310 FWL, Sec. 20, T-17S, R-36E, Lea County, New Mexico

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			-					

The above deviation surveys are accurate and true to the best of my knowledge,

H. C. LYLE

Drilling Supt.

STATE OF TEXAS

COUNTY OF ECTOR)

BEFORE ME, the undersigned, a Notary Public in and for said county and State on this day personally appeared H. C. Lile, known to me to be the person whose name is subscribed to the foregoing instrument as Drilling Supt. for Loffland Brothers Company, a corporation, and acknowledged to me that he executed the same for the purpose and consideration therein expressed, in the capacity stated, and as the act and deed of said corporation.

GIVEN under my hand and seal of office this 3rd day of September, A.D., 1963.

My Commission Expires: 6-1-65

Notary Public in and for

Ector County, Texas



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813
GIT GRIMES
P O BOX 1825
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR COASTAL STATES GAS PROD. CO. FIELD, UNDESIGNATED FORMATION LOWER ABO LEASE GULF STATE "AAA" WELL NO. 1 COUNTY LEA STATE NEW MEXICO DATE 10-5-63 TIME 9:30 PM Status SHUT IN Test depth 9150 Time S. 1.30 MIN Last test date INITIAL Tub Pies. O# BHP last test Cas. Pies. PKR BHP change —— Elev. 3875 GL Fluid top 4965 Datum (-5275) Water top. None Temp. (a. 140 F Run by CATES Cal. No. A2410N Chait No. 1	Depth 1 0 1000 2000 4000 6000 8000 9150/ (-5275)	Pressure 0 0 0 3 358 1039 1431	Gradient002 .178 .341 .314
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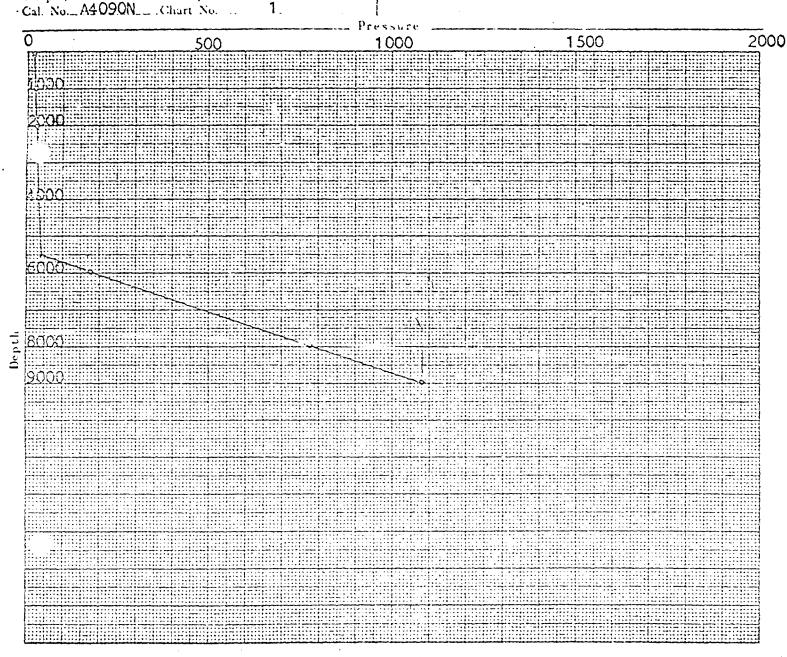


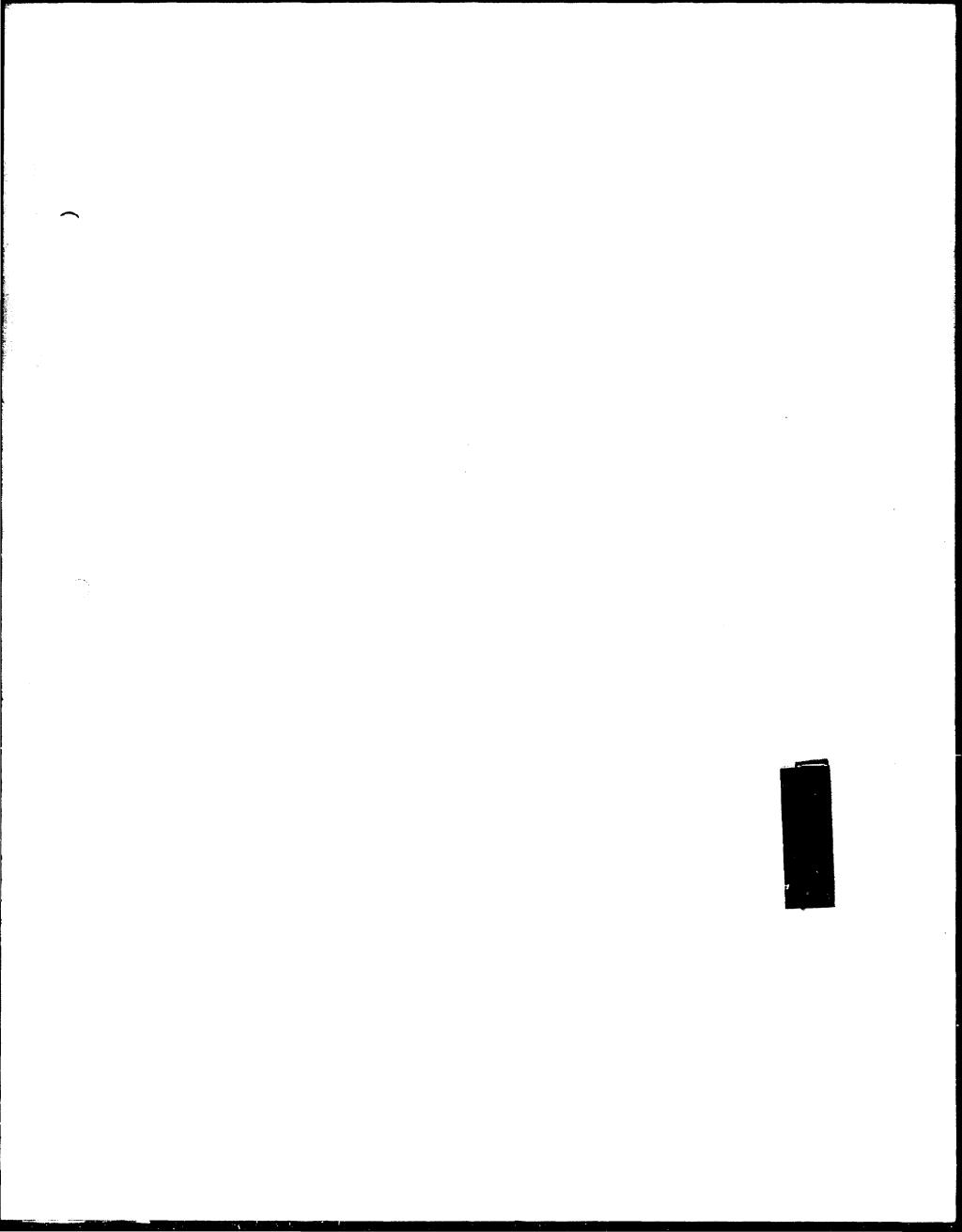
COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPANS 3-3613
611 GRIMES
P. O BOX 1025
HOBBS, NEW MEXICO

ROTTOM HOLE PRESSURE RECORD

OPERATOR COASTAL STATES GAS PROD. CO.	•	•
FIELD UNDESIGNATED FORMATION UPPER ABO	Depth Pressure	Gradient
LEASE GULF. STATE "AAA" WELL NO. 1	0 16	•.
COUNTY. LEA STATE NEW MEXICO	1000 20	.004
DATE. 10-6-63TIME 5:00 AM	2000 24	.004
Status SHUT INTest depth 9000	4000 34	.005
Time S. 11.5. HRS. Last test date. INITIAL	6000 179	.076
Tub Pres. 16# BHP hist test	8000 779	.300
Cas. Pres. DUAL BHP change	9000/(-5125) 1080	. 301
Elev 3875 GL. Fluid top 5542	•	•
Datum_, (-5125), _Water top,NONE		•.
Temp. (i 1200F Run by STINSON		





SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	JOASTAL STA	TES GAS PROD	ucine Co. Leas	GULF STATE	No	11
Location of Well	Unit F	Sec 20	Twp 17	Rge 36	County	LEA
OI NOIL	Name of Rese	rvoir or Pool	Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size
Upper	UNDESTONAT	,	CIL	SWAB	TBC.	2 ⁿ
Lower	UNDESIGNAT		OIL	SWAB	TBG.	2"
		:	FLOW TEST	NO. 1		
Both zon	es shut-in at	(hour, date):_	10-5-6	S		
		date):	10:00	PM 10-5-63	Upper Completion	Lower Completion
Indicate	by (X) the	zone producing	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	x	0
				• • • • • • • • • • • • • • • • • • • •		. 0
Stabilize	ed? (Yes or N	٥)	•••••	, ɗ	No	No
			• • • • • • • • • • • • • • • • • • • •	*	75	0
				je u presenta	50	0
			· · · · · · · · · · · · · · · · · · ·		75	0
Pressure	change during	g test (Maximum	minus Minimum)	<i>.</i>	25 Loss	0
Was press	sure change as	n increase or a	decrease?			-
Well clos	sed at (hour,	date): 4:00	AM 10-6-63	Total Tim Production	ne On on 6.0 Hour	s
Oil Produ During Te	est: 30.0	obls; Grav3	Gas Prod During	iuction Pest =	MCF; GOR	-
Remarks	PRESSU	RE BOMB IN L	OWER WHILE SV	ABBING UPPER		
			FLOW TEST 1	NO. 2		
Well open	ed at (hour,	date):5	:30 AM 10-	-563	Upper Completion	Lower Completion
					••••	×
			·	• • • • • • • • • • • • • • • • • • • •	50	0
Stabilize	d? (Yes or No	·)	,		No	No
Maximum p	ressure durin	ng test			75	25
					~~	0
Pressure	at conclusion	of test			50	15
Pressure	change during	test (Maximum	minus Minimum).		25	25
Was press	ure change an	increase or a	decrease?	<i>/</i>	DECREASE	Decrease
Well clos	ed at (hour.	date) 11:30	AM 10-5-63	Total time Production	on 6.0 Hour	s
Oil Produ During Te	ction41.0 b	obls; Grav. 33	.O V Gas Produ During Te	ectionst	MOF; GOR	
Remarks	Paessu:	re Bomb in U	PPER WHILE SY	ABBING LOWER		
I hereby cnowledge		the information		ed is true and co		
pproved	1/ 0	/ vation-Commissi	/ - >	Operator COASTAL		
New Mexi	co Oil Conser	vation Commissi	òn	By JOST A.	COLEMAN /	
16/0		Kart-		NitleADENT	je, Exercis	
	and the same	· .//				



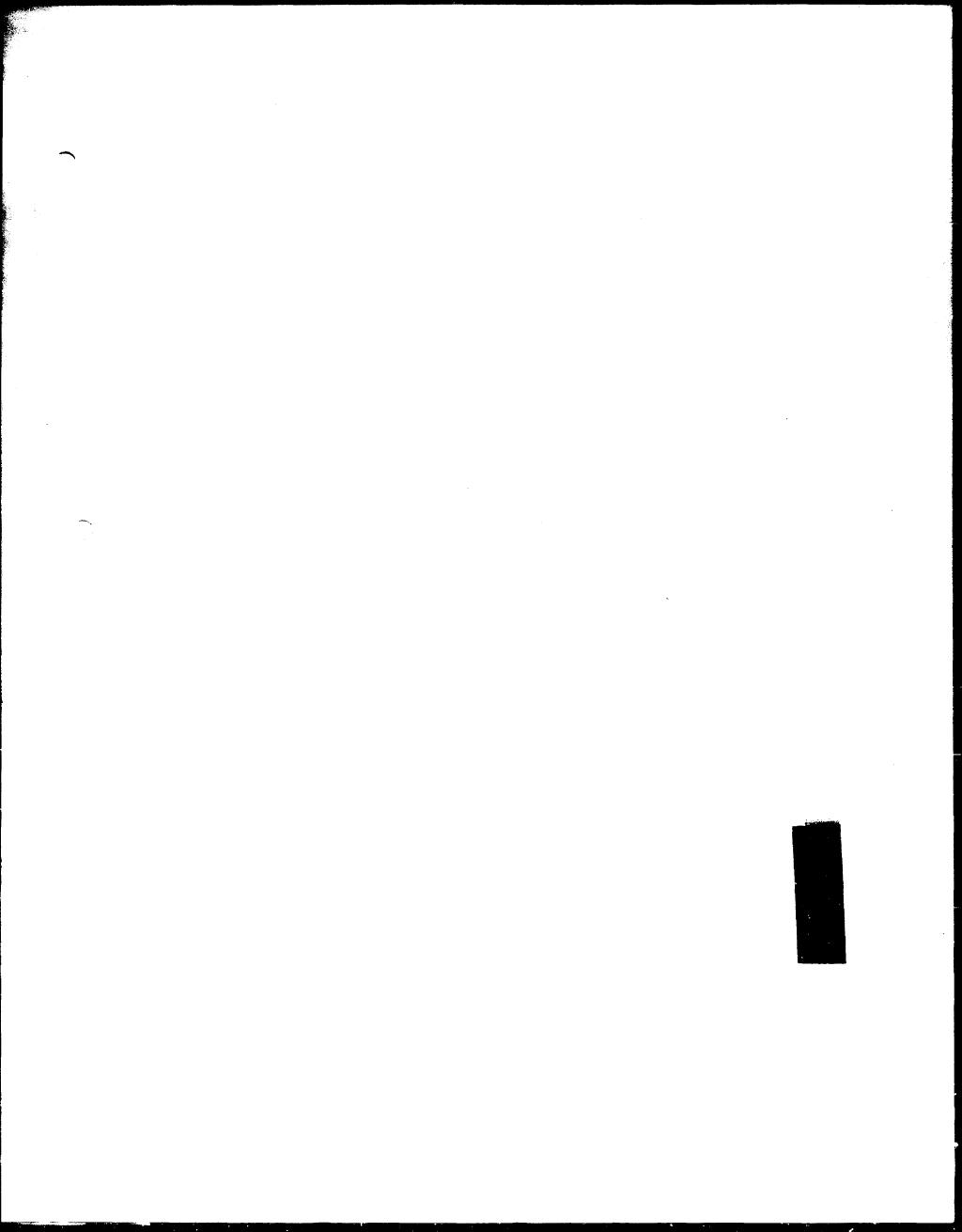
LL: GULF STATE AAA.NO.1

FIELD: UNDESIGNATED UPPER 480 LOTER ABO

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF		LAPSE TIME IRS	IO MIN		PRESSURE LOSER ECORDER)	BHP @ (-5275*) 9150* PsiG LOWER
1953 10-5	SHUT IN RUN GRADI & ON BOTTOM W/BOM	ENT 10:00 PM	0	30	50	. 0	1431
10-5	LOWER ABO SHUT IN SWABBING UPPER AL	11:00 11:00 12:00 MN 1:00 AU 2:00 3:00	123456	60 60 60 60 60 60	50 60 60 70 75 70	000000	1431 1431 1431 1431 1431 UPPER ABO BHP @ (-5125) 9000
, such	ABO. ON BOTTOM W/BOMB IN UPPER		0	30	50	. 0	1080 1112
<u>(</u> 5	ABO SWABBING LOWER ABO H H H H H H H H H H H H H H H H H H H	6:30 7:30 8:30 9:30 10:30	23456	60 60 60 60 60	60 7.5 50 60 60 50	25 25 15 25 25 15	1130 1155 1170 1188 1212

Joe a. Eleman



COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION

610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Aztec Oil and Gas Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1986' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007'-9027', and the lower Leonard formation perforations at 9214'-9224'.

You are respectfully advised that Aztec Oil & Gas Company hereby waives notice and hearing on the application for dual allowable.

Very truly yours,

AZTEC OIL & CAS COMPANY

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION

610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Sunray D-X Oil Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R 36E, Lea County, New Maxico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027', and the lower Leonard formation perforations at 9214-9224'.

You are respectfully advised that Sumray D-X Oil Company hereby vaives notice and hearing on the application for dual allowable.

Very truly yours,

SURRAY D-X OIL COMPANY

14:

COASTAL STATES GAS PRODUCING COMPANY

NEATH TEXAS DIVISION

610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

I, Ralph Lowe, an individual, have been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027', and the lower Leonard formation perforations at 9214-9224'.

You are respectfully advised that I, Ralph Lowe, hereby waive notice and hearing on the application for dual allowable.

Very truly yours,

RALPH LOWE, AN INDIVIDUAL

Rolph Lowe

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ROSWELL PRODUCTION DISTRICT

W. B. HODKING
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
HANAGER
F. O. MORTIOCK
DISTRICT CAPLORATION
HANAGER

M. A. RANKIN DISTRICT SCAVICES MANAGER August 27, 1963

P. O. Drawer 1938 Roswell, New Mexico

Coastal States Gas Producing Company 610 Citizens National Bank Building Abilene, Texas

Attention: Mr. Jack R. Birchum

Gentlemen:

Your letter of August 19, 1963 to our Hobbs, New Mexico office requesting that Gulf execute a waiver for dual allowable for your Gulf-State No. 1 has been referred to this office for reply.

Please be advised that we are unable to execute this waiver for the following reasons:

- (1) Request is for a dual allowable and not a dual completion.
- (2) Application for and diagram of the proposed completion did not accompany the request.
- (3) The Abe and Lower Drinkard are synonymous in age and it is our opinion the Commission will set for hearing your request for a dual allowable.

For your information, if this matter is set for hearing, we will take no action to support or oppose your request.

Yours very truly,

M. I. Taylor

JHJ:deh



NOTE: Crude Samples and a suite of logs provided for presentation at the Hearing.

EXHIBITS FOR CASE NO. 2903

COASTAL STATES GAS PRODUCING COMPANY

DOUBLE "A" ABO FIELD

LEA COUNTY, NEW MEXICO

.

EXHIBITS FOR CASE NO. 2903

COASTAL STATES GAS PRODUCING COMPANY'S APPLICATION

FOR DUAL COMPLETION OF ITS

GULF STATE WELL NO. 1

UNIT F, SECTION 20, TOWNSHIP 17 SOUTH - RANGE 36 EAST

TO PRODUCE OIL FROM

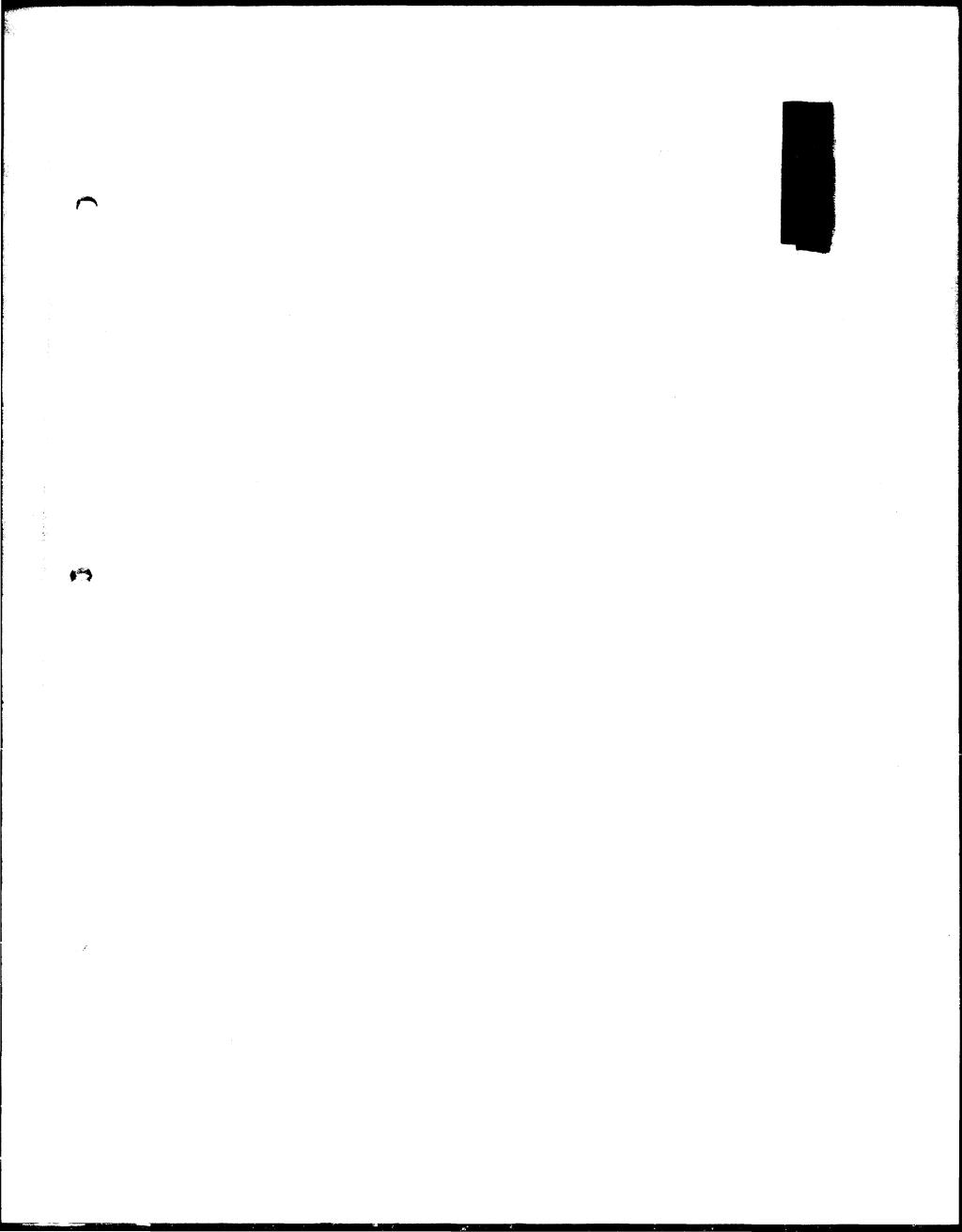
THE ABO DOLOMITE

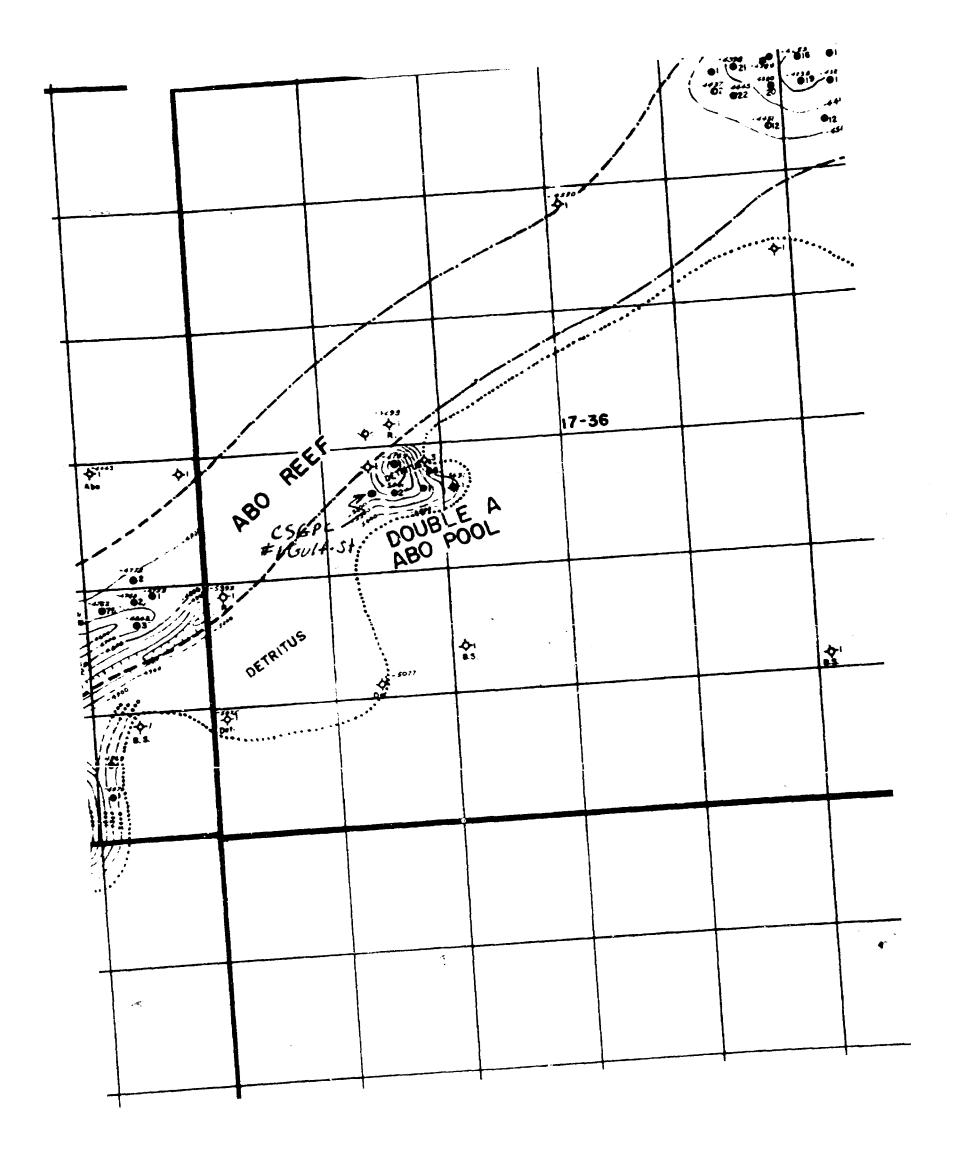
AND

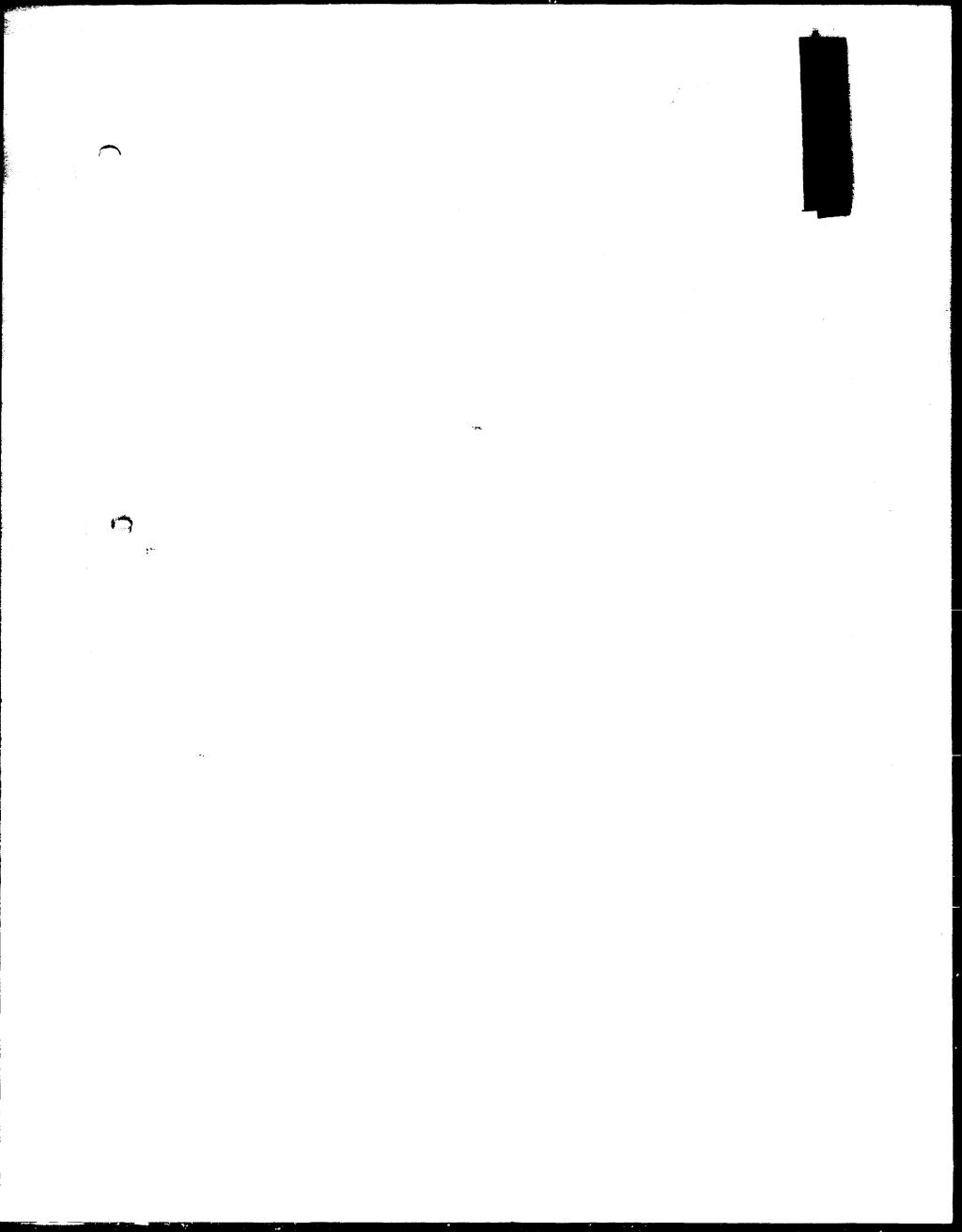
THE LOWER ABO DOLOMITE

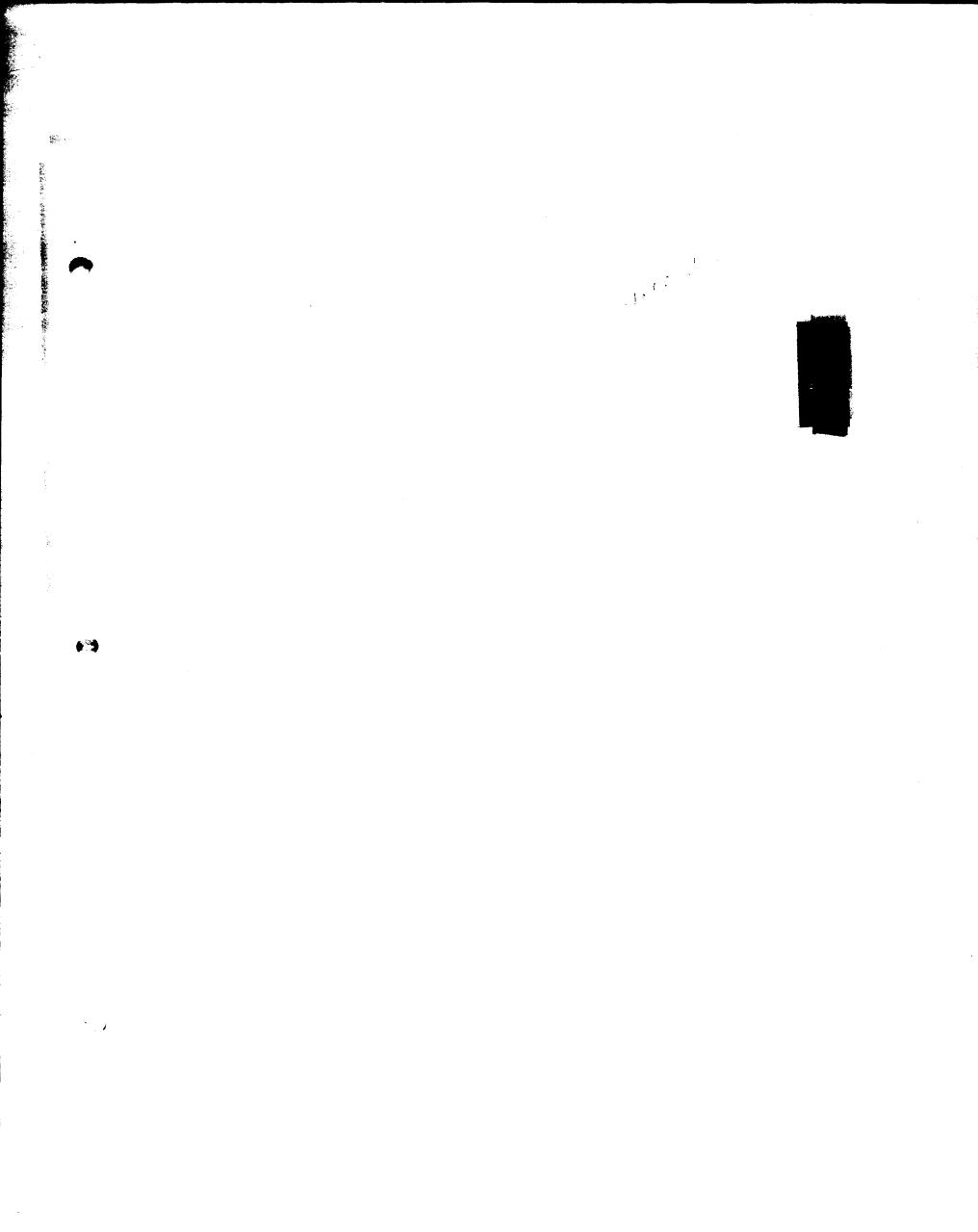
THROUGH

PARALLEL STRINGS OF TUBING









GULF STATE NO. 1 - WELL SUMMARY

: }

June 29:

June 30:

1

SPUD DATE: 5:00 p.m. 6/13/63. TD = 380'. Ran 12 jts (380') 13-3/8", 8rd, H-40, 48#, Csg set @ 380'. Circulated hole one hour. Ran 275 sks Lone Star June 14: Reg cment with 4% gel and 2% CaCl. PaD @ 6:20 this a.m. Cmt did not circulate. Prep to load hole with pea gravel. June 15: TD - 3801. WOC - 24 hours. Going in hole now to drill shead. TD = 1724', drlg in redbed. Dev $\frac{10}{5}$ @ 884'. Dev $\frac{10}{5}$ @ 1530'. June 16: TD - 2528', making trip for new bit. Formation - anhy and salt. June 17: Dev 10 @ 1988'. TD = 3260', drlg in anhy. NW = 10.2, Vis = 32, Dev $3/4^{\circ}$ @ 2778'. June 18: TD = 3500', drlg in dolo and anhy. M = 10.2, Vis = 32, $Dev l=3/4^\circ$ June 19: @ 3320'. T/Yates plus 710'. Structural position is flat with 1-X well. TD = 3530', Ran 110 jts (3512.20') 32 & 24#, J-55, 8rd Csg set @ 3526' Cemented with 475 sks cement plus 750 sks Diamix A, 10.8% June 20: gel. P-D @ 12:45 a.m. Circualted out 190 sks cement. June 21: TD - 3635', drlg in dolo. Drlg w/ water. Nippled up, tested csg to 1000# - o.k. Drlg on bottom @ 11:45 p.m. 6/20/63. Juie 22: TD - 4109', drlg in dolomite, drlg w/water. Everything working O-K. June 23: TD - 4400', drlg. Dev 1-3/40 @ 4000'. TD = 4740', drlg in dolo. Dev 3/40 @ 4560'. Drlg w/water. June 24: TD = 4950', drlg in dolomite. Drlg w/ water. Dev $1-\frac{10}{2}$ @ 4834'. June 25: TD = 5285', drlg in colo. Drlg w/ water. Dev $l=\frac{10}{2}$ @ 5050'. June 26: TD = 5408. Dev $1-\frac{1}{2}$ @ 5366. Drill pipe sutck 53 off bottom. June 27: Prep to spot oil. TD = 5408'. Dropped drill collars in hole. Spent 24 hours June 28: fishing. Recovered all but 4 drill collars. Mixing mud prep to wash over drill collars. (Cause: Hole in drill pipe 1st jt above collar. Failed to locate on 1st trip. Attempted to make connection - pipe stuck. Spotted 75 bbls oil - failed to get oil around bit. Twisted pipe off on top of collars while attempting to back up.)

TD - 5450', fishing. Top of fish - 5408'. MW - 9.2, Vis - 35,

about 35' above the bit. Pulled out of hole to try to knock it off.

TD = 5450', top of fish = 5408'. Fishing for bit, reamor and one

collar. Washed over to 5400', and failed to jaw loose. 121 a 9.2 Vis - 48, WL - 2. Going in w/ Cutright Shoe to wash over.

Washed over drill collar and the graft rubber stabalizer was

WL = 9.8, filter cake = just a film.

GULF	STATE	NO.	1 -	WELL	SUMMARY	

July 22:

Page two

	GULF STATE NO. 1 -	WELL SURMARY Page two
	1963	
	July 1:	TD = 4350', still fishing. Top of fish = 5408'.
	July 2:	Corrected TD = 5408°. Washing over reamer.
	July 3:	TD = 5408°, fishing job complete. Recovered all fish = cleaned out hole, looks good. Changing drill pipe out, will resume drig around noon.
	July 4:	TD = 5532', drlg in dolomite. MW = 8.0, Vis = 35.
	July 5:	TD = 5820', drlg in dolomite. Dev 1° @ 5535'.
	July 6:	TD = 6270', drlg in dolo. Drlg with water. Dev 1° @ 5862'.
	July 7:	TD = 6500°, drlg in dolo. Drlg with water. Dev 1-10 @ 6310°.
	July 8:	TD = 6741', making trip for bit. Formation = dolo and sand. Drlg w/water. Dev 1º 8 6552'.
	July 9:	TD = 6927'. Twisted off drill pipe lost 36 collars and 22 jts drill pipe. Prep to run free point indicator.
	July 10:	TD = 6927. Recovered all fish. Will resume drlg this a.m.
, ,	July 11:	TD = 72931. Making trip for bit.
• •	July 12:	TD - 7517', making trip for new bit. Drlg w/water.
	July 13:	TD = 7681, tripping for bit. Drlg in dolo and sd. Dev 3° @ 7670. MW = 8.6, Vis = 33, drlg with brine and water.
	July 14:	TD - 7860', drlg in dolo and chert. Drlg w/water. Dev 3° 8 7730'.
	July 15:	TD - 8140°, drlg in dolo and chert. Drlg w/water.
	July 16:	TD = 8161', drlg with water. Dev 2° 6 8161'. Drill pipe stuck 6 3 stands and a single off bottom.
	July 17:	TD = 8161. Fishing. Backed off and left 27 drill collars and 1 jt dril pipe in hole. Pulled out of hole, prep to condition w/ mud.
	July 18:	TD = 8161', tripping for bit. Ran in w/ overshot and jars = Jarred fish loose and recovered all of fish. Now going in hole to drill ahead. MW = 9.2, Vis = 34, WL = 40.
	July 19:	TD = 8262, making trip for bit in dolo and chert. $MM = 9.5$, Vis = 35, WL = 50, 2/32 cake.
	July 20;	TD = 8316'. Making trip in dolo. MW = 9.5, Vis = 35, WL = 20. Dev $3/4^{\circ}$ @ 8262'.
2	July 21:	TD = 8373', drlg in dolo. MW = 9.5, Vis = 36, WL = 35, 2/32 cake.

TD = 8445°, making trip in dolo. MW = 9.5, Vis = 36, Dev $2-3/4^{\circ}$ @ 8440° .

GULF STATE NO. 1 - WELL SUMMARY

\$ *****

	GULF STATE	10. 1 - WELL DUTS-1
•	1963.	TD = 8533', drlg in dolo. MW = 9.4, Vis = 34, WL = 44.
	July 23:	TD = 8533', drig in dolo and chert. No = 9.3, Vis = 36,
	inla 54:	TD = 8533', drlg in dolo. Mr = 9.3, Vis = 36, TD = 8607', making trip in dolo and chert. Mr = 9.3, Vis = 36, WL = 12, 2/32 cake. Dev 2-3/40 @ 8600'. WL = 12, 2/32 cake. Dev 2-3/40 @ 8600'.
	Mly 25:	WL = 12, 2/32 cake. Dev 2-3/4 s coordinate of the second chert. Wi = 9.2, Vis = 34, TD = 8690', making trip in dolo, lime and chert. Wi = 9.2, Vis = 34, WL = 16, Filter cake = 2/32. Dev 3 e 8680'.
	July 26:	TD = 8690', marked = 2/32. Dev 3' & coco : WL = 16, Filter cake = 2/32. Dev 3' & coco : TD = 8790', Drlg in dolo, lime and chert. Ni = 9.2, Vis = 37, TD = 8790', Drlg in dolo, lime and chert. Ni = 9.2, Vis = 37, WL = 16, 2/32 cake.

TD = 8841', making trip, Mi = 9.2, Vis = 36, WL = 27, 2/32 filter cake. Dev 3-1/3 @ 8810'. July 27:

TD = 8877', Making trip in dolo, lime and chert. MW = 9.2, Vis = 34, WL = 27, 2/32 filter cake. Dev 30 8 8877'.

July 28: TD = 8914, drlg in dolo and chert. Mi = 9.2, Vis = 35, WL = 15, July 29: 2/32 cake.

TD = 8943', drlg in dolo, lime and chert. Mi = 9.3, Vis = 34, WL = 23, 2/32 cake. Dev 3 @ 8914'. July 30:

Now taking Drill Stem Test. #1 - 8986 - 9006' Abo, GTS - 14", July 31: Flowing to pit.

Drill Stem Test No. 1: 8986 - 9006'
T. C. = 30", T. O. = 3 hours, T. C. = 45".

GTS = 15". No fluid to surface. Reversed out 27 bbls clean oil, Aug. 1: Recovered 90' very heavy oil and Gas cut Mid. IM . 4414, ISIP . 3497#, IFP . 90#, FFP . 240#, FSIP . 3015#, \$1dg.
FM . 4396. Bottom Hole Temp . 181 F.

TD = 9093', drlg in dolo and lime. MW = 9.3, Vis = 36, WL = 10, 2/32 cake. Dev 3-3/4 @ 9070'. Abo Reef Pay = 9001 to 9034' (33'). Avg. 6" per ft drlg time through Pay. Preparing to drlg to 9232'. Aug. 2: (Low proven Perfs in Area).

TD = 9131', drlg. MW = 9.2, Vis = 38, WL = 13, filter cake 2/32. Dev 3-3/4° @ 9070'. Aug. 3:

9131', drlg in dolo and lime. MW = 9.2, Vis = 37, WL = 12, Aug. 4: 2/32 filter cake.

Now completing Drill Stem Test #2. DST from 9200 to 9220. Gas to surface in 10 mins. Oil 2 hours and 45 mins. Steill testing. MW = 9.2, Vis = 36, WL = 10, 2/32 filter cake. Dev 3-3/40 @ 9190'. Well Aug. 5: shut in for pressures.

TD - 9233', logging. Went back in and drilled 13' of new hole, Pulled Drill stem Test #2 - 9200 to 9220'. Tool opened 3 mins w/ strong blow out at 12:30 a.m. this morining. Aug. 6: air to surface. Shut-in 30 mins - opened 3 hours w/ a good blow Gas

1963

Aug. 6:

(Continued) immediately shut in 45 mins.

FSIP - Gas to surface in 10 mins
Oil to surface in 165 mins.
Reversed out 40 b.o. and no water.

INW = 4460#, ISIP (30) = 3488#, IFP = 451#, FFP = 1341#, FSIP (45) = 3146# building, FNN = 4444#, Bottom hole temp = 1910 F. Crude 37 Gravity dark, H₂S = slight.

Aug. 7:

TD = 9233'. Circulating. Waiting on 5-2" Csg.

Aug. 8:

WOC. TD = 9233'. Ran and cmt 285 jts (9225.38') $5-\frac{1}{2}$ " OD, 17 & 15.5#, J-55 & N-80, New smls casing set @ 9232.78'. Cmtd w/ 600 Cubic ft of 1-1 Diamix. P-D @ 10:41 p.m. WOC = 4 hours. Cut off csg and nippled up. Waiting on 2-3/8" Tbg.

Aug. 9:

Moving drlg rig off location.

Aug. 10:

Tore down set out of way. Prep to move in completion unit.

Aug. 11:

Moved in. Drlg out cmt.

Aug. 12:

TD - 9229'. Ran Gamma Ray Neutron C.L.L. Now running cmt bond logs. Prep to perf 9214 to 9224' w/2 jet shots per ft.

Aug. 13:

PBTD - 9229'. Ran cement Bond logs, showed good cmt to 8100'. Perf 9214 - 9224' w/ 2 jet shots per foot. Ran and landed 299 jts 2" EUE, 3rd smls Tbg @ 9218'. with Pkr @ 9154'. Swabbed 33 b.l.w. per 4 hours. Acidized perfs w/500 gals Mud Acid. Formation broke down at 5050 to 4500 and acidized @ 4500# @ 0.8 BPM. ISIP - 4000#, 30 Mins - 900#. Prep to swabb.

Aug. 14:

Allowable on Zone (9214 - 9224) 141 BOPD.

Total load - 6 bbls Acid (Mud Acid) water

36 bbls flush (fresh) water

42 bbls water

Swabbed and flowed 42 bbls of water (load) in 4 hours; then flowed 33 b.c. in 4 hours on 22/64" choke. FTP = 180# (7-8 b/hr) as of 2:00 p.m. 8/13/65 Testing. Flowed 136 b.o. in 17 hours on 24/64" choke, FTP = 75#-100#. Cut 5/10% BS&W. GOR 1115-1. POTENTIALED == 192 b.o. per day no water. (212 MCF/day)

Aug. 15:

Flowed 88 b.o. no water in 10 hours. On 20/64" choke, FTP - 100#. Killed well with 50 bbls lease oil. Pulled out with tbg. Ran and set Baker Retrievable Bridge Plug @ 9090'. Started in hole w/ dump bailer to dump sand on top of plut. Bailer btm failed and released sand, bridging csg @ 8545'. Pulled out w/ bailer. Now running sand pump to clean out sand bridge.

Aug. 16:

Ran in w/ bit and washed out Bridge @ 6545'. Ran 9090' Plug O.K. Pulled out of bhole w/ bit. "Go Services" dumped 2 sks 20/40 sd on plug and perforated. 9007-9027' w/l jet shot per foot. Ran and landed Baker Full

GULF STATE NO. 1 - WELL SUMMARY

1963

Aug. 16:

(Continued) Bore cmter @ 8947' w/ end of tbg @ 9016'. Swabbed tbg dry. Dowell acidized perf w/1000 gals Mud Acid. Spotted acid over perfs. FBD @ 3700#, acidized 3650 @ 2.1 RPM. ISIP = 3000#. 10" SIP = 2000#. Job complete @ 2:30 p.m.
Swabbed 33 b.w./3hours. FL @ 4500'. Recovering 100# Acid Water. Rec 33 bbls of 65 bbls load water.

Aug. 17:

Swabbed 63 bbls load water in 6 hours; then swabbed 33 bbls oil, no water in 6 hours. Dowell Acidized perfs w/6000 gals FIAX-2 Acid and flushed w/35 bbls water. Pumped acid into formation @ 5200# @ 4.4 BPM. ISIP = 3500#; 10 Min SIP = 2900#; one hour = 1750#. Swabbed 88 bbls water @ 2000*.

Aug. 18:

Swabbed 15 bbls acid water and 108 bbls new oil in 18 hours. FL = 6000'. Put on 20/64" choke for 6 hours. Well flowed 3 bbls oil in 1 hour and died.

Aug. 19:

Well made 33 b.o. and 15 bbls acid water in 12 hours. Attmpt to run bracer survey. Unable to get through Seating Nipple w/ tool. Prep to pull tbg and re-run tracer this a.m. Have 106 bbls out of 144 bbls aci water recovered..

Aug. 20:

Prep to drlg out cement.

Ran tracer Survey from fluid level to btm leaving well Bore @ 9007 to 9010. and going up to outside of Csg to 8960 to 8970. Squeezed perfs

w/ 150 sks Flac cmt. Pumped into formation at 800#. FSP = 500#.

Aug. 21:

Prep to re-perforate.

Drilled out cmt to 9070'. Tested Squeeze job 2500#. Pulled out of hole with the and bit.

Aug. 22:

Swabting
Acidized perfs with 500 gals Mud Acid. Formation broke down @ 4500# @
2.2BPM. ISIP = 3800#, 15" SIP = 2700#. Swabbed 88 bbls fluid in 11 hours
FI. @ 8500'. Swabbing at the rate of 1 BPH with good show of gas.
Acidized perfs with 2500 gals FLAX-2 @ 4900 to 4500 @ 4.6 BPM. ISIP =
3500#, 15" SIP = 2650. Total load = 60 bbls acid and 40 bbls flush oil.

Aug. 23:

Swabbed 66.24 bbls fluid in 24 hours. Cutting 15 to 25% Acid water. Swabbed total 140 bbls fluid, being 100 b.w. and 40 b.o. Grav = 35.20 @ 800 F. Chlorides = 93,000, CaCl = 26,000, Magnesium = 8500. Swabbing this a.m.

Aug. 24:

Swabbing acid water with FL @ 300'. Swabbed 10 b.o. and 3 b.w. in 9 hours Dowell acidized w/1000 gals Reg 15% HCL w/ M-38 and using 40 perf sealer balls @ 5900 - 6200 @ 6.2 BPM. ISIP - 3600%, 15" SIP - 3000%. Job Complete @ 500p.m.

Swabbed 35 b.o. and 104 bbls acid water in 12 hours. FIR 3000'. Total load 240 bbls acid and 35 bbls flush oil.

Ang. 25:

Swabbing. Swabbed 97 b.n.o. and 30 bbls acid water. FL @ 5500'. Total rec 69 bbls acid water and 197 bbls oil.

GULF STATE NO. 1	- WELL SUMMARY Page six
Aug. 26:	Swabbed 145 bbls fluid/24 hours. Being 104 b.n.o. and 41 bbls acid water. FL@ 8000'. Cutting 5% to 6% water and BS. Gas strong enough that if takes 5 to 10' to each run before they can get back in the hole. Have rec'd total of 301 bbls new oil and 110 bbls acid water out of 240 bbls acid water.
Aug. 27:	Swabbed 33 bbls oil and 8 bbls water in 12 hours. Shut well in for 12 hours. TP = 400#. FL @ 40001.
Aug. 28:	Swab testing.
Aug. 29:	Laid down thg. This a.m. waiting on shipment of pipe to dual well.
Aug. 30:	Well shut down. Waiting on materials.
Sept. 1:	Running in dual string,
Sept. 2:	Swabbed thg. Brown HS-2 Dual Pkr Set @ 9117', Dual Anchor Set @ 8917' Prep to run Pkr Leakage Test.
Sept. 3:	Swabbed 114 bbls fluid being 68.4 bbls oil and 45.6 bblw in 24 hours Water - load. Flowed 7 bbls fluid in 2 hours - cutting 20% water.
Sept. 4:	Swabbed 63.3 bbls oil and 18.3 bbls water in 20 hours. Cutting 8 to 5% water. FL @ 5000'. Lower Zone Flowed 13 bbls oilin 4 hours. Upper Zone - Started Swabbing.
Sept. 5:	Upper Zone - Swabbed 54 bbls fluid, cutting 40% water in 7 hours. FL © 5000' and steady. Lower Zone - flowed 6½ bbls oil in 7 hours. Rigged up and loaded annulus and circulated with clean lease oil. Swabbed lower zone to 7000' and steady. Acidized lower zone with 250 gals FLAX-2 as follows: Loaded Tbg with 18 bbls of acid and hit pressure. Pumped 10 bbls acid at 1.7 RPM @ 1300#. Pumping acid at the rate of 3 RPM @ 3900# to 2500#. Completed Acid job @ 4.0 to 3.2 RPM @ 2700 to 3200#. Flushed with 28 bbls lease oil @ 3.2 RPM @ 3200 to 4200#. ISIP -

check Pkr.

Sept. 6: Pulled out of hole with both strings of Tbg. Left Pkr in hole @ 9117'

Now going in hole with overshot.

2500#, 20 min SIP - O#. Then after job complete; csg pressure and tbg pressure equalized @ 2500#. Indicating Pkr slipped and pumped up to hole. Started swabbing unable to get below 3000'. Prep to

Sept. 7: Ran overshot recovered Btm half of pump bbl and $1 - 1\frac{1}{2}$ " Collar which was split. Re-ran overshot rec'd all of fish. Laying down working string. Now going in hole with Dual Assembly.

Sept. 8: Ran and landed TTW Tension Pkr on 291 jts 2-1/16" Tog set @ 9149' with dual Tog anchor @ 8951' on 251 jts of 2-1/16" Tog. Swabbed 71 bbls fluid in 12 hours, 3% water. FL @ 7500' on lower xone. Now swabbing lower Tog.

Sept. 9: Swabbed 95 bbls fluid in 22 hours. Cutting 5% water (15% BS for the pas 8 hours) Good gas in fluid.

Swabbed a total of 123 bbls oil and 40 bbls water.

GUT.F	STATE	NO.	1 -	WELL.	SUMMARY
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GULF STATE NO.	1 - WELL SUMMARY Page seven
Sept. 19:	Lower Zone - Swabbed 35 bbls fluid in 11 hours; cutting 1% water and 4% BS. Shut in 12 hours. TP - 375%. Upper Zone - Swabbed 87 bbls fluid in 12 hours; cutting 5% water and 10% BS.
Sept. 11:	Lower Zone: Well made 39 bbls fluid in 12 bours, 8% BS, 4% water. FL @ 7500'. Upper Zone: Well made 11 bbls fluid in 1 hour, 2% water, FL @ 4500 - 7000'.
Sept. 12:	Lower zone: Re-acidized w/ 2500 gals XW-26 @ 0 - 400# @ 0.7 BPM. ISIP - 0#. Swabbed 30 bbls loadoil and 21 bbls acid water in 9 hours. Upper Zone: Shut in.
Sept. 13:	Lower Zone: Swabbed 73 bbls fluid in 24 hours. FL @ 7500'. Cutting 5% water. Upper zone: Shut in.
Sept. 14:	Lower zone: Swabbed 62 bbls oil & 12 bbls water with 1% BS in 24 hours FL @ 6500'. Upper zone: Shut in.
Sept. 15:	Lower Zone: Swabbed 75 bbls oil & 4 bbls water in 24 hours. Cutting 24 BS. Upper Zone: Shut in.
Sept. 16:	Lower Zone: Swabbed 75 bbls fluid. FL @ 5600'. Clear Acid water in 9 hours. Acidized perfs 9214 ~ 9224' w/ 10,000 gals FLAX ~ 2 w/ W-26 and flushed w/30 bbls lease oil. Total Load 294 bbls. 60 bbls oil and 234 bbls acid. 2600 - 3000# @ 2.2 BPM. ISIP - 2950#, 15 min SIP - 1900#. J.C. @ 7:33.
Sept. 17:	Lower Zone: Swabbed &1 bbls oil in 24 hours. FL @ 7000'. Very little gas. Upper Zone: Shut in.
Sept. 18:	Swabbod 99 bbls fluid in 24 hours - being 40 bbls water and 59 bbls oil FL @ 6500'. Rec 229 of 294 total load. (160 Baw and 69 bbls cil)
Sept. 19:	Shut in 8 hours - 800# in 8 hours. Bled down in 20 mins. FL @ 4500'. Made 55 bbls in 16 hours. 5% water. Lower zone. Upper zone: Swabbed 60 bbls in 8 hours - no water - FL @ 5000'.
Sept. 20:	Swabbed 39 bbls oil in 12 hours - Lower Zone. Rigged up. Now prep to cut Bull Plug off btm tbg and re-perf 9210 - 9226
Sept. 21:	Swabbed 10 bbls oil in 5 hours. Pulled out of hole w/ dual pkr assembly, Re-perforated 9210 - 14 and 9224 - 28 w/ 4 jet shots per foot. Ran and landed Baker Full Bore Cmtr @ 9100'. Prep to swab.
Sept. 22:	Lower Zone: Swabhed 144 bbls in 24 hours. FL \otimes 6000'. Good gas blow cutting 0 = 8% water and 0 = 4% BS. Upper zone = Shut in.

Swabbed 47 bbls fluid in 12 hours. Spotted 12 bbls of fomer Frac Plug 72 bbls acid and 35 bbls flush oil. Pressured up to 1950#. Acid hit broke. Inj rate 4.5 BPM @ 1900#. Shut down instantly on Vaccum. Ran swab found FL @ 6000'. Swabbed 16 bbls in 4 hours. Re-spotted Plug Sept. 23:

w/12 bbls Former Frac Plug, 48 bblsacid and 36 bbls flush @ 2.8 BPM @ 4400#, ISIP = 3600#. 15 Min SIP = 200#. Swabbed 19 bbls in 2 hours FL @ 5000'. Total load to rec. 120 bbls acid water

24 bbls Former Frac Plug 71 bbls flush oil
215 Total load to recover.

•	
pt. 24:	Swabbed 174 bbls fluid in 24 hours. Nex water cut - 60%. FL @ 6000' steady good gas.
ept. 25:	Swabbed 168 bbls fluid in 24 hours. 4% water. FL @ 2500' in hole. Good blow of gas but not enough to flow.
ept. 26:	Swabbed 36 bbls oil in 24 hours. FL @ 2500'. Down for repairs - threw Diesel Engine out of Unit.
pt: 27:	Made 116 bbls in 16 hours. FL scattered from 3000' to TD.
ept. 28:	Swabbed 167 bbls fluid in 24 hours - FL @ 6500'. Fair gas - cutting 4% water. Setting pumping unit this e.m.
pt. 29: pt. 39:	Made 139 bbls oil plus 3.2 bbls water in 24 hours. Swabbing. 154 bbls oil in 24 hours. Cutting 2% water - FL 8 7500'
:t. 1:	Swabbed 149 bbls oil in 24 hours. FL @ 7700' v/ scattered Pockets to 4700'.
:t. 2:	Oct. 2 - Pipe on Loc @ 3:00 p.m. Prep to start out of hole @ 8:00 p.m. tonight. Swabbed 142 bbls in 24 hours - Cutting 25 water. 2000' of fluid.
:t. 3:	Well made 161 bbls oil in 2% Water in 24 hours.
:t. 4:	Layed down Tbg and Pkr. Now running Dual Assembly this a.m.
:t. 5:	Going in hole w/ dual assembly. Shut down overnight. Will complete running assembly and will run Pkr leakage test tonight.
et. 6:	Ran and landed
κ,	2 string of 2-1/16" Tog and 1 string of 1" Ven Tog SN @ 9174' Landed Lower string @ 9175.46' SN @ 9036' Upper string @ 9040.37' Vent string @ 9175.46'
	Ran Packer Leakage tests on lower string. O.K. Prep to run test on Upper zone.
:t. 7:	Prep to start Enginethis a.m. to pump lower zone. finished running packer leakage test on Upper zone. Ran 208 - 5/8", 156 - 3/4", 1 - 10' and 1 - 6'
	Sub. $1\frac{1}{2} \times 1\frac{1}{4} \times 2^{4}$ w/ sand cup.
t. 8:	In 12 hours pumped 39 bbls oil. 10 - 120" SPM.

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	17#18U F10N		
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U-8 0.0.			
LAND OFFICE			
*******	- OIL		
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	CG		
- TRATOR			

NEW MEXICO OIL CONSERVATION COMMISSION (Form C-101) Portland 7/1/57 Santa Fe. New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWARLE

New Well Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletio. The completion date shall be that date in the case of an oil well when now oil is delive

cred into	the stock tan	Le. Gas mus	t be reported on 15.025 paia at 60° Fahrenheit. Abilene, Texas	10-16-6
			(Place)	(Date)
			NG AN ALLOWABLE FOR A WELL KNOWN AS:	
			oducing Co-Gulf State, Well No. 1 in NE	
, c	ompany or Op and	2	T -17-S R -36-E NMPM, Double "A" Abo	
Umit L	ster	************	the state of the s	***************************************
	Lea		County. Date Spudded 6-13-63 Date Drilling Completed	8-6-6
Plea	se indicate l	ocation:	Elevation 3875 GL Total Depth 9233 PBTD	9229
~ -	2	 _	Top Oll/Gas Pay 9007 Name of Prod. Form. Abo	
ם	CB	A	PRODUCING INTERVAL -	
E	F G	H	Perforations 9007 - 9027 Depth Depth	
- 1	x	1 1	Open Hole None Casing Shoe 9232 Tubing	9040
_		 	OIL WELL TEST -	
L	K J	I	Natural Prod. Test: bbls.oil, bbls water in hrs,	
· ·		P	Test After Acid or Fracture Treatment (after recovery of volume of oil equ	
М	NO		load oil used): 166 bbls.oil, 0 bbls water in 24 hrs. 0	min. Size Pun
			GAS WELL TEST -	
				Ci
	FOOTAGE)	ittaa Daa	Natural Prod. Test: MCF/Day; Hours flowedChoke	51 Ze
Sire	sing and Game	Sax	Method of Testing (pitot, back pressure, etc.):	
	····		Test After Acid or Fracture Treatment: MCF/Day; Hours	flowed
13-3/8	380	275	Choke Size Method of Testing:	
	-			estate and it was
8-5/8	3512	750	Acid or Fraction Treatment (Give amounts of materials used, such as acid, sand): 500 Gals MCA & 10,000 Gals FLAX-2	water, oil, and
5-½	9232	600	Press0- Press0- oil run to tanks August 26,	
0 2 2	20:0		Gil Transporter Texas-New Mexico Pipeline Comp	any
2-1/1	6 9040		Gas Transporter	
marks:	W	ell com	pleted as an oil well.	
· 4.1.444		er.m.m.cm.e7.11	United the control of	
			mation given above is true and complete to the best of my knowledge.	TNG COMPA
proved	······	•••••	, 19. COASTAL STATES GAS PRODUC (Company or Operator)	TING COME A
			·	
O1	IL CONSER	RVATION	COMMISSION By: (Signature)	
			Title Production Superinte	ndent
/ i ••••••••••		••••••	Send Communications regarding w	cli to:
tle			Name Coastal States Gas Proc	ducing Co.
			Address P. O. Box 385, Abilen	

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

Field Name Double A	Abo	County	Date 10-1-63
Coastal States G	as Lease		Well No.
Producing Company		State	Range
Location Unit of Well F	20	17 - S	36 - E
	Commission heretofore authorized YES NO X	rized the dual completion o	of a well in these same pools or in the same
3. The following facts are submitted:	Upper Zoo	ae .	Lower Zone
a. Name of reservoir	Abo		Lower Abo
b. Top and Bottom of			
Pay Section	İ		
(Perforations)	9007 - 902	7'	9214 - 9224'
c. Type of production (Oil or Gas)	Oil	·	Oil
d. Method of Production	Drawn dan sa		Drawn da a
(Flowing or Artificial Lift) 4. The following are attached. (Please n	Pumping		Pumping
operators of all leases offset E. Waivers consenting to such been furnished copies of the X d. Electrical log of the well o thereon. (If such log is not a 5. List all offset operators to the lease o Axtec Oil & Gas Company Sunray D-X Oil Company,	tting applicant's lease. dual completion from each of application.* or other acceptable log with the available at the time application which this well is located property. P. O. Box 847, P. O. Box 128,	ops and bottoms of producition is filed, it shall be su together with their correct Hobbs, New Meximus, New M	cico Lco
Gulf Oil Corporation, P			
Humble Oil & Refining C			New Mexico
Ralph Lowe, P. O. Box 8			
Sun Oil Company, P. O. 5. Were all operators listed in Item 5 above of such notification 8-1	ve notified and furnished a co		ES X NO If answer is yes, give dat
	ny), and that I am authorized	by said company to make	of the Coastal States Gas this report; and that this report was prepared e to the best of my knowledge.
Should waivers from all offset ope	rators not accompany an app	lication for administrative	Signature apptoval, the New Mexico Oil Conservation

Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If,

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

after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

	FORM C-103 (Rev 3-55)
OSTUBOLION CONTO	NEW MEXICO OIL CONSERVATION COMMISSION FORM (Rev 3-55)
15.11	The DEDUKIS ON "
AND OFFICE OIL	relate District Office as per comm
INDRATION OFFICE	(Submit to appropriate Address P. O. Box 385, Abilene, Texas Range 36-E
PERATOR PARTY	ucing Company P. O. Box 3057 Range 36-E
ne of Company pastal States Gas Prod	Well No. Unit Letter 20
se state	IICC
The Corformed	THIS IS A REPORT OF: (Check appropriate block) THIS IS A REPORT OF: (Check appropriate block) X Other (Explain):
10/6-7-/03	THIS IS A REPORT Casing Test and Cement Job Final Completion
Beginning Drilling Operations	
Plussing	Remedial Work and quantity of materials used, and results obtained.
Detailed account of work done, nature a	To demonstrate the maps.
October 6, 1963:	2 string of 2-1/16" Tbg and 1 string @ 9175.46. 2 string of 2-1/16" Tbg and 1 string @ 9175.46. Upper string @ 9040.37'. SN @ 9174' Upper string @ 9175.36'.
	SN @ 9036 Vent String. Ran Packer Leakage tests on lower string.
	Ran Packer Leakage tests on upper string.
1	: Ran Packer Leakage
October 7, 1963	
october 7, 1963	
October 7, 1963	Position Company Compa

ssed by	Candy	Co	nsultant	WORK REPORTS	ONLY	Gas Producing Company Completion Date
M. C.	TD		PBTD	Produc		ag Depth
forated latery			Prod RESULTS OF W	ucing Formation(s)		Gas Well Potential
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Floor		rt/Bbl
Beiore Workover After Workover			ł d	I hereby certify the to the best of my!	nt the information ; snowledge.	given above is true and comp
	OIL CONSE	RVATION COMMISSION		Name		
_	-			Position	- sion Su	perintendent

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5/a/e 1-37.56 Texacolnc. T.P.C.2.0. 5-21-67 8.19.69 06-865 04-5850 7-37.93 T.D6648 9-9.66-9. Ref. Assoc.	W.LOVINGTO	NSanAnd) Ino M kelly	Guif- 1 to 12 45 Mobil 1 to 2 69 2-10-62 \$31.76 240 Ac.	Carper Drig.Co. Gulf 11-18-66 5-16-64 06-4196 2.5.Moren Cil. Serv."	513/e , 5unray 18-18-C4 Gulf 9-20-49
1-51:9 Texaco inc. 5ulf 5-11-61 06:1935 0-863	Texas-Oulf Prod	16	7-16-07 06-1049 Atlantic: Gulf 1 11-16-64 10-20-67 Atlantic 100-6419 10-16-64	Gulf Sunray 6-13-64 10-13-64	04.20.49 04.6019 \$33.25 13 Western 5121 13
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1-3246 1 *J. M. Kelly** 5-37-67 +	29 Atlantic	# 440 Ac. 1.3859 Sore Gorg. \$360 T0.10197 P(%) 300 -28	27	1-11-69 1-11-68 00-5117 56-1841	SPENCE.
12-10-10 (00-4107) 6-37-60 (17 Kelly) 6137-60 (17 Turner, 18, 9/2) 8-17-60 [06-955]26	9-11-64 Fred Turner, Jr., elel-e. State	Shikisi, 6-18-68 Carper 06-2413 'Emoly' Fred Turner, In, elol-e. State	State Seed Turner, Jre.	Fred Turner, Jr., e lal-s. State	Mischaed Shell Zeo Ac. Oscilloson Tailled Lewilliamson Phillips Light Fred Tyrners. Spencer Unit Sigls
-97.53 (O'Amerada) Jaire L-Hama (Parasare of the control of the	Allaniie 9-21-66	Mobil HBP Affanfic 9-21-64 Phillips HBP	300 Allison & Herbidge R B P 11-21-63 100-1240	Terringe Monemio Chem- 1-11-41 Moremio Mison N Chem Instrict 2-19-67 1-11-41 2-19-67 1-11-41	Philips HBP 1 Gulf Tidewater 15 10 57 12 12 12 12 12 12 12 12 12 12 12 12 12
Fred Turnershies	Total Aztec Mobil Philips	\$27.00 OSOU'S	WcAles- lerFuel	Pure Suite A	Tidewaler 50.15 (7) (12-6-6) 06-69 (10-6-6) 06-69 (
, 6/2/ e	64-1214 3/2/8 4-40.50 3-40.58 12-20.58 1-40.56 John M.Kelly 7-21-68	Hap	5/0/8 ×53	SIDEA CALLE STATE PROOF PROOF RABUACATION TIDEWARE NAP 2-10-64	5/9/c 103-1830 5/4/c 103-1830 7/4/c
.ññ-+6	5 Attac O. & a.	10.57 10.57 10.57	Mobil Har John M. Kelly	L. L	Ariectanical Sections
1/55[] Sun		Tidewater igulf	HEP John M. Kelly	Sentuetta mujou gase 1 3/45	7 - 1 - 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1

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Maximum cummulative horizontal deflection calculated from deviation survey readings.

COMPANY: WELL NAME: LEGAL DESCRIPTION:

Coastal States Gas Producing Company Gulf State #1 1980 FNL & 2310 FWL, Sec. 20, T-17S, R-36E, Lea County, New Mexico

DEPTH	DEGREES	HORIZONTAL DEFLECTION	CUMMULATIVE HORIZONTAL DEFLECTION		
	-	FT.	FT.		
FT.		* A •			
	i	•			
		0.257	0.257		
59	1/4	2.628	2.885		
360	1/2	2.285	5.170		
884	1/4	5,640	10.810		
1530	1/2	3.998	14.808		
1988	1/2	7.181	21.989		
2778	3/4	16.552	38.541		
3320	1-3/4	8.048	46.589		
3525	2-1/4	14.506	61.095		
4000	1-3/4	5.090	66.185		
4560	3/4	7,173	73.358		
4834	1-1/2	5,655	79.013		
5050	1-1/2	3.033 (Astronomy)	87.286		
5366	1-1/2	3.647	90.933		
5575	1	5.008	95.941		
5862	1	9.771 * 200 * 100	105.712		
6310	1-1/4	Harry 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	109.935		
6552	1	4.948 · · · · · · · · · · · · · · · · · · ·	114.883		
6741	1-1/2	39.726	150.609		
7500	3	8.898	163.507		
7670	<u>.</u> 3	3,140	166.647		
7730	3	1.504	168.151		
8161	2	4.846	172.997		
8262	2-3/4	4,711	177.708		
8370	2-1/2	3,359	181,067		
8440	2-3/4	4.057	185.124		
8533	2-1/2	3.215	188,339		
8600	2-3/4	4,187	192,526		
8680	3	7,371	199,897		
8810	3-1/4	3,507	203.404		
8877	3	1.937	205.341		
8914	3	5 625	210.966		
9000	3-3/4	IL 579	215.545		
9070	3-3/4	, and	.223.394		
9190		/ • • • • • • • • • • • • • • • • • • •			
7200					

The above deviation surveys are accurate and true to the best of my knowledge,

Drilling Supt.

STATE OF TEXAS . COUNTY OF ECTOR)

BEFORE ME, the undersigned, a Notary Public in and for said county and State on this day personally appeared H. C. Lile, known to me to be the person whose name is subscribed to the foregoing instrument as Drilling Supt. for Loffland Brothers Company, a corporation, and acknowledged to me that he executed the same for the purpose and consideration therein expressed, in the capacity stated, and as the act and deed of said corporation.

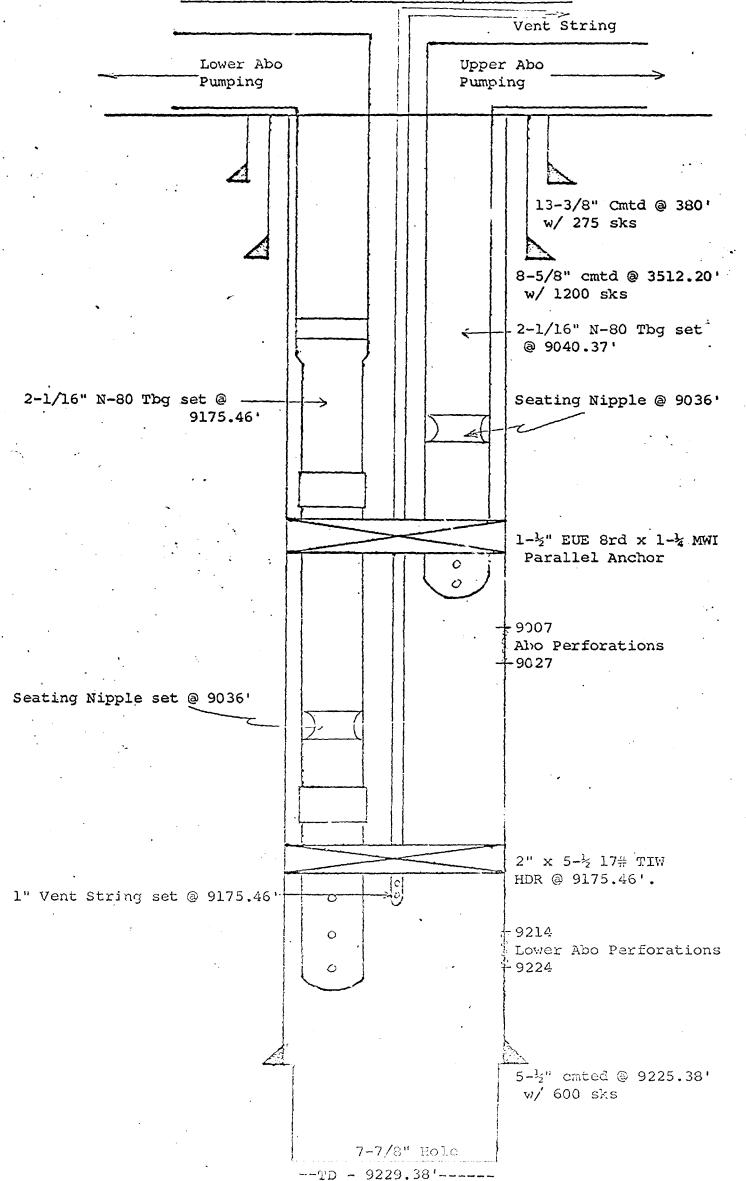
GIVEN under my hand and seal of office this 3rd day of September, A.D., 1963.

My Commission Expires: 6-1-65

Notary Public in and for

Ector County, Texas

GULF STATE NO. 1
DOUBLE A ABO FIELD, LEA COUNTY, NEW MEXICO



PACKER-SETTING AFFIDAVIT	
(Dual Completions)	
STATE OF	hin
oath deposes and says:	1140
That he is of lawful age and has full knowledge of the facts herein beset out.	ojoh
That he is employed by Non Tool a Captaly Company in the capacity	y
ofand as such is its authorized agent.	
That on 600000000000000000000000000000000000	o r
(Make and Type of Packer) in Coastal Cocing Control Control	<u>,</u> 0
Well No, located in U Letter, Section	•
prevent the commingling, within the well-bore, of fluids produced from a stratus below the packer with fluids produced from a stratum above the packer. That the packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.	m
Company Conference	
	•
(Its Agent)	•
Subscribed and sworn to before me this the 1th day of distriby AD,	1
Notary Public in and for the County	Mun

My Commission Expires 1/10/66

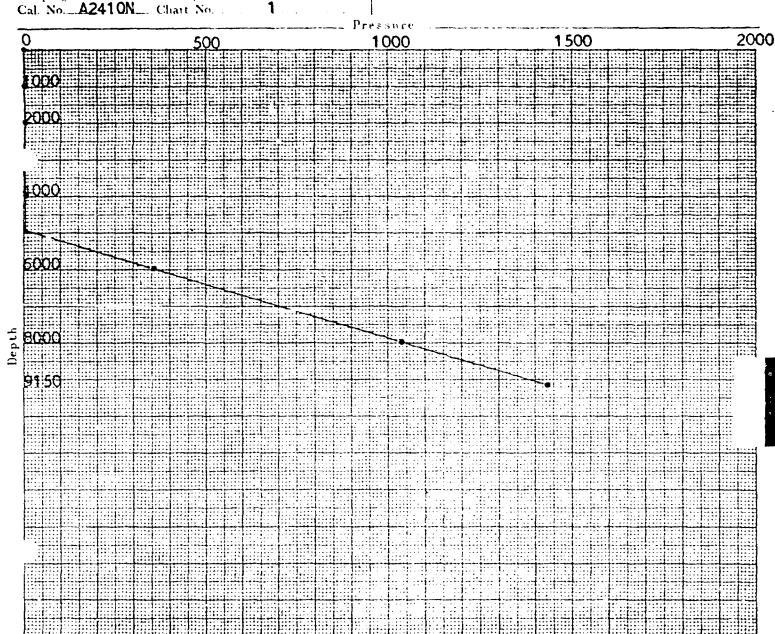


COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3:3813
611 CRIMES
P O BOX 1825
HOBBS. NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

0 0 1000 0 2000 0 4000 3 6000 358 8000 1039	Gradient002 .178 .341 .314



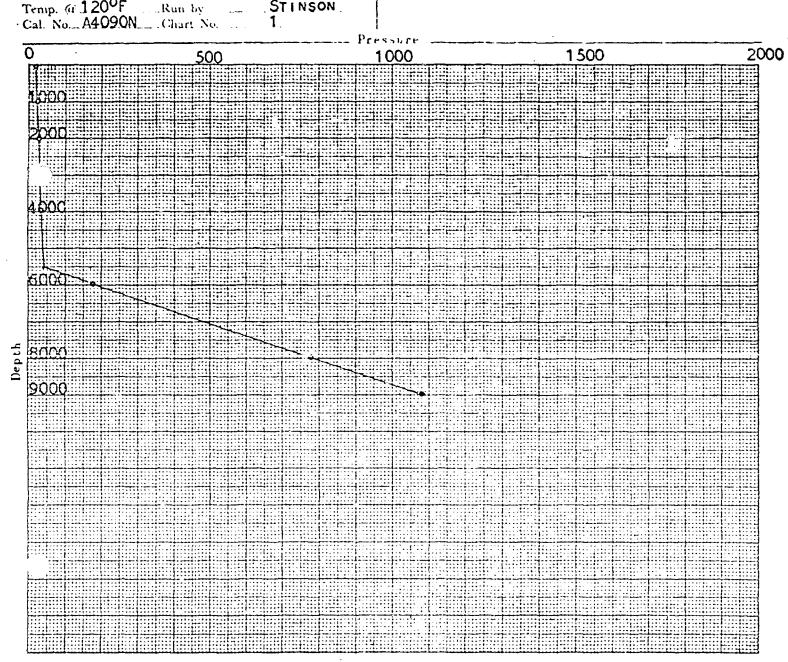


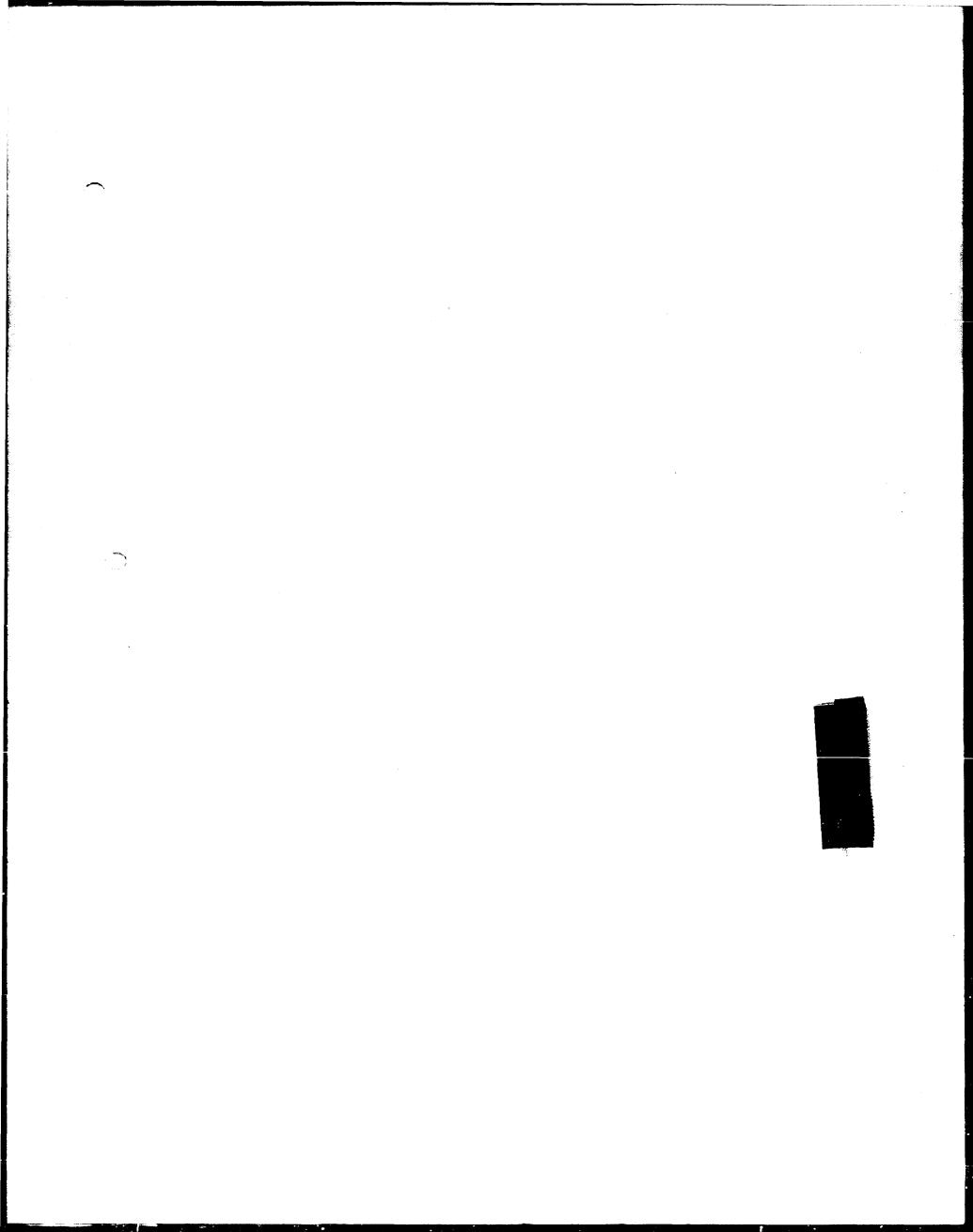
COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3:3813
611 GRIMES
P. O. BOX 1825
HOBBS, NEW MEXICO

BOUTOM HOLE PRESSURE RECORD

OPERATOR COASTAL STATES GAS PROD. CO.	•	•	
FIELD UNDESIGNATED FORMATION UPPER ABO	Depth	Pressure	Gradient
LEASE GULF STATE "AAA" WELL NO. 1	0	16	••
COUNTY LEA STATE NEW MEXICO	1000	20	. 004
DATE 10-6-63TIME 5:00 AM	2000	24	• 004
Status SHUT IN Test depth 9000	4000	34 .	.005
Time S. 11.5. HRSlast test date INITIAL	6000	179	.076
Tuh Pres. 16# BHP last test	8000	779	. 300
Cas. Pres. DUAL BHP change -	9000 (-51 25) 1080	. 301
Elev 3875 GL. Fluid top 5542	•	•	
Datum. (-5125) Water top NONE			• .
TINSON			





This form is not to be used for reporting packer leakage tests

NEW MEXICO OIL CONSERVATION COMMISSION

,	SOUTHEAS	NEW MEXICO PA	CKER LEAKAGE TEST		
Operator COASTAL STATES GAS PRODUCING CO. Lease GULF STATEON NO.					
Location Unit	Sec 20	Twp 17	Rge 36	Country	LEA
of Well F		Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size
Upper		CIL	Swab	Твэ.	2 ⁿ
Compl UNDESIGNATE Compl UNDESIGNATE		OIL	SWAB	Тве.	2"
Compil	:	FLOW TEST			
Both zones shut-in at	(hour date).			•	
Well opened at (hour,	•		PM 10-5-63	Upper Completion	Lower Completion
Indicate by (X) the				-	0
Pressure at beginning					0
Stabilized? (Yes or No.					No
Maximum pressure during					0
Minimum pressure during					0
Pressure at conclusion					
Pressure change during					
Was pressure change an					
			Total Ti		e
Well closed at (hour, of Oil Production During Test: 30.0 b)	ate): 4.00	Gas Pro	duction		
Oncoun			VABBING UPPER	MCF; GOR	
Remarks PRESSUR			7,001110		
		PT OW MPCM I	NO 2		
Wall amound at /hours	ant a \ 51	flow test: 30 Am: 10-		Upper	Lower
Well opened at (hour, o				Completion	Completion X
Indicate by (X) the	_	,		50	0
Pressure at beginning of				# 1 · ·	No.
Stabilized? (Yes or No)					25
Maximum pressure during					0
Minimum pressure during				• • • • • • • • • • • • • • • • • • • •	15
Pressure at conclusion					·
Pressure change during					25
Was pressure change an					DECREASE
Well closed at (hour, of Oil Production 4:0 bk	ols; Grav. 33.	O Gas Produ	Production	e on 5.0 Hour	-
Remarks PRESSUR	E BOMB IN U	PPER WHILE S	MABBING LOWER		
I hereby certify that t knowledge.	the information	herein contain			
Approved New Mexico Oil Conserv		19/3	Operator COASTA		
			10 m A	しの1 見れる符 /	i
	/ \		By 000 11.	CC. Comme	· ·
By A Trible Disting		,	By JOE A. Title ACENT	C. Come	<u>, </u>



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813

611 GRIMES

P. O. BOX 1825

HOBBS, NEW MEXICO

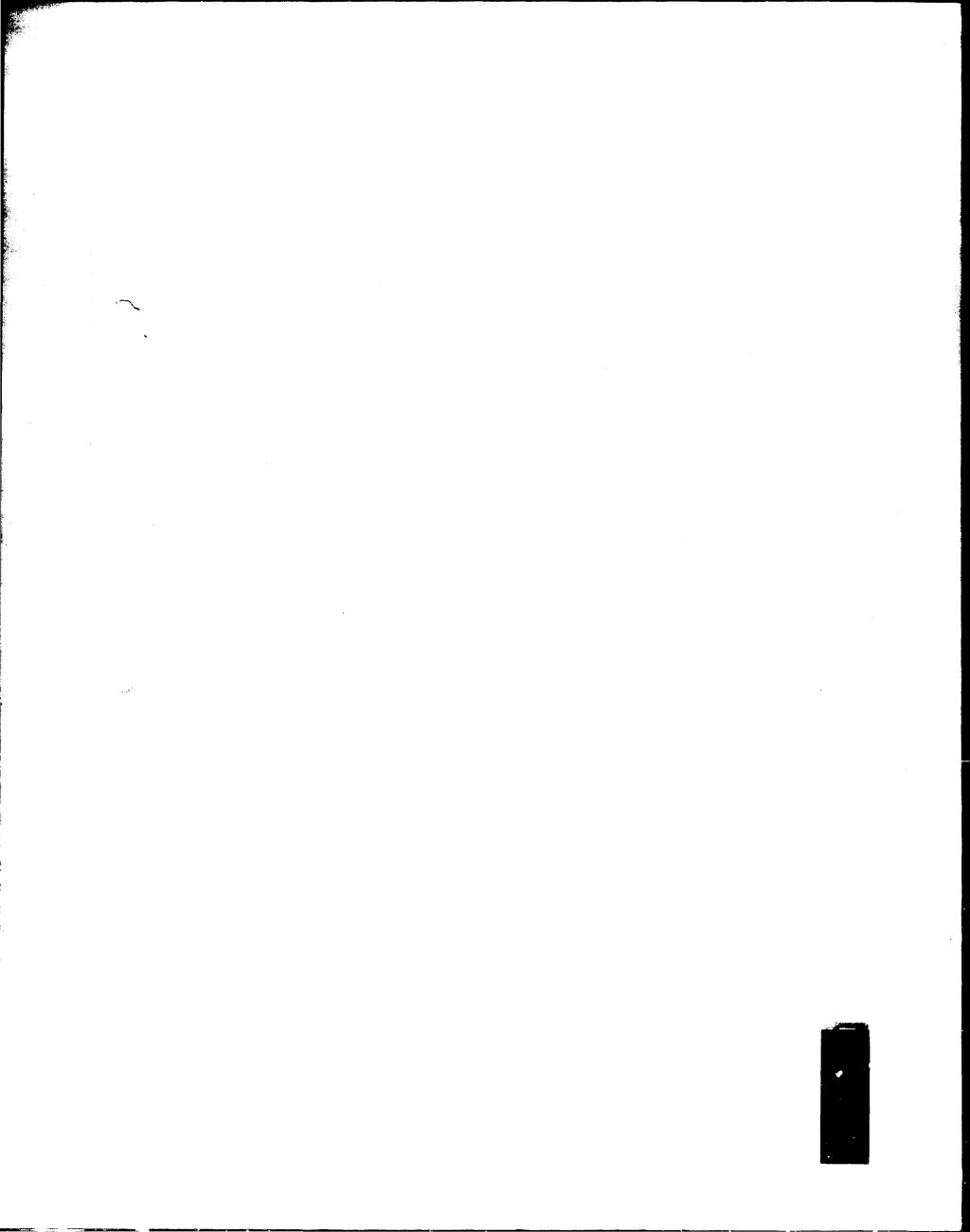
WELL: GULF STATE AAA.NO.1

FIELD: UNDESIGNATED UPPER ABO

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF	TIME	ELAP: TIM HRS		SURFACE UPPER	PRESSURE LOWER	8HP @ 9150* LOWER	(-5275°) Psig
1963 10 -5	SHUT IN.RUN GRA & ON BOTTOM W/E	DIENT				CORDER)		
	IN LOWER ABO LOWER ABO SHUT SWABBING UPPER	10:00 Pm in	0	30	50	C	1431	
	17	11:00 12:00 MN	1 2	00 00	50 60	0	1431 1431	
10-6	PULLED BOMB & R GRADIENT IN UPP ABO. ON BOTTOM	1:00 AM 2:09 3:00 UN 4:00 ER	3 4 5 6	00 00 00 00	60 70 75 70	0	1431 1431 1431 UPPER BHP @ 9000	A80 (~5125)
`	W/BOMB IN UPPER ABO SWABBING LOWER	5:30	0	30	50	o	1080	
	ABO "H" "H" "H" "H" "H" "H" "H" "H" "H" "H	6:30 7:30 8:30 9:30 10:30 11:30	1 2 3 4 5 6	00 00 00 00 00	60 75 50 60 60 50	25 25 15 25 25 15	1112 1139 1155 1170 1188 1212	,

SIGNED Joe a. Eleman



P. O. BOX 385

COASTAL STATES GAS PRODUCING COMPANY

HORTH YEXAS DIVISION 610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Aztec Oil and Gas Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R-36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007'-9027', and the lower Leonard formation perforations at 9214'-9224'.

You are respectfully advised that Aztec Oil & Gas Company hereby waives notice and hearing on the application for dual allowable.

Very truly yours,

AZTEC OIL & GAS COMPANY

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION
610 CITIZENS NATIONAL BANK SUILDING
ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

Sunray D-X Oil Company has been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, R 36E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027', and the lower Leonard formation perforations at 9214-9224'.

You are respectfully advised that Sunray D-X Oil Company hereby vaives notice and hearing on the application for dual allowable.

Very truly yours,

SUNRAY D-X OIL COMPANY

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COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAB DIVISION 610 CITIZENS NATIONAL BANK BUILDING ABILENE, TEXAS

August 19, 1963

New Mexico Oil Conservation Commission Post Office Box 2045 Hobbs, New Mexico

Gentlemen:

I, Ralph Lowe, an individual, have been notified that Coastal States Gas Producing Company has applied for dual allowable for their #1 Gulf State located 1980' FNL and 2310' FWL, Section 20, T-17S, K-35E, Lea County, New Mexico.

It is our understanding that this well is completed in the Abo formation, perforations at 9007-9027, and the lower Leonard formation perforations at 9214-9224.

You are respectfully advised that I, Ralph Lowe, hereby waive notice and hearing on the application for dual allowable.

Very truly yours,

RALPH LOWE, AN INDIVIDUAL

Ralph Lowe

jу

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MARKER
M. I. Taylor
DISTRICT PRODUCTION
MARKER
F. O. Mortlock
DISTRICT ERPLORATION
MARKER

August 27, 1963

P. O. Drawer 1938 Roswell, New Mexico

Constal States Gas Producing Company 610 Citizens National Bank Building Abilene, Texas

Attention: Mr. Jack R. Birchum

Gentlemen:

Your letter of August 19, 1963 to our Hobbs, New Mexico office requesting that Gulf execute a waiver for dual allowable for your Gulf-State No. 1 has been referred to this office for reply.

Please be advised that we are unable to execute this waiver for the following reasons:

- (1) Request is for a dual allowable and not a dual completion.
- (2) Application for and diagram of the proposed completion did not accompany the request.
- (3) The Abo and Lower Drinkard are synonymous in age and it is our opinion the Commission will set for hearing your request for a dual allowable.

For your information, if this matter is set for hearing, we will take no action to support or oppose your request.

Yours very truly,

m. J. Taylor

M. I. Taylor

JHH:dch

NOTE: Crude Samples and a suite of logs provided for presentation at the Hearing.