

MURPHY OPERATING CORPORATION

UNITED BANK PLAZA, SUITE 300 400 NORTH PENNSYLVANIA AVENUE POST OFFICE BOX 2648 ROSWELL, NEW MEXICO 88202-2648

TELEPHONE 505 623-7210

June 22, 1989

MECSEVED

RETURN RECEIPT REQUESTED

Mr. David Catanach, Engineer State of New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87504-2088 JUN 2 6 1989

OLE CLASSICATION DIV. SANTA FE

Re: Request for Injection Pressure Increase

Todd Lower San Andres Unit ("TLSAU") Well Numbers: #29-15 and #36-1

Dear David:

Enclosed please find step rate test information on the above-referenced wells. These step rate tests were recently performed by B & D Well Testers of Hobbs, New Mexico.

Murphy Operating Corporation respectfully requests that said injection pressure limits for these wells be increased to 50 psi less than the indicated fracture pressure. The well numbers, locations, pressure limits as previously approved, and indicated fracture pressure are listed below.

Well Number/Location	Previously Approved Limits	Indicated <u>Fracture Pressure</u>		
Well #29-15 Unit O, Section 29 T7S-R36E	853 psig	1150 psig		
Well #36-1 Unit A, Section 36 T7S-R35E	847 psig	1210 psig		

Thank you for your cooperation in this regard. If you should have any questions concerning this request, please do not hesitate to contact me at the number listed above.

Sincerely,

MURPHY OPERATING CORPORATION

Mark B. Murphy

President and Chief Operating Officer

MBM/js

Enclosures: Tabulated step rate test information for Well(s) #29-15 and #36-1.

Pressure versus Rate Graph(s) for Well(s) #29-15 and #36-1.

cc: Mr. Jerry Sexton, Supervisor
Oil Conservation Division
Post Office Box 1980
Hobbs. New Mexico 88240

B & D WELL TESTERS Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

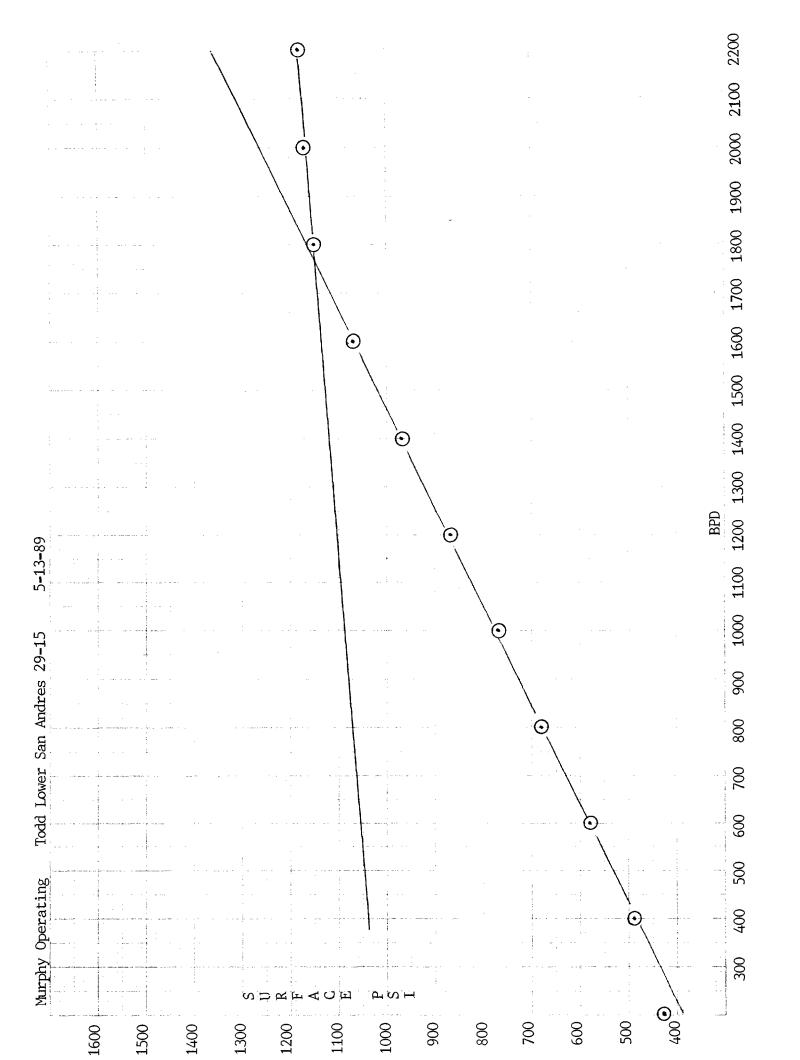
Company Murphy Operating Test Date 5-13-89						Unit Lease Todd Lower San Andres		
Company Total Depth					Elevation	3 13 07	Well # 29-15	
Csg size	\//t	Wt d Set at Perfs: From To				To	Sec 29 Twp-Blk 7S Rge 36E	
Tbg size 2			Set at		rfs: From	To	County Roosevelt State New Mexi	
Producing thre				acker set at	110. 1 10111		Co. Rep	
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Time	Elap	Rate	Total	Well Milotilla	Surface			
of Reading	Time	BBLS Per	BBLS Per	Surface PSIG	PSI Cor for	ВНР	Remarks	
4:40	Hrs. Shut	Day in	Rate	410	Friction			
4:45	Start							
4:50	Searc	200		430				
4:55		200		430				
5:00	:15			430				
5:05	<u> </u>	400	+	480				
5:10		400		490				
5:15	:30	400		490				
	•••	100			1			
5:20		600		550				
5:25		600		570				
5:30	:45	 		580				
		000						
5:35		800		650				
5:40		800		660				
5:45	1:00			680				
	1.00	000						
5:50		1000		740				
5 : 55		1000		760				
6:00	1:15	1000		770				
6:05		1200		830				
6:10		1200		850				
6:15	1:30	1200		870				
6:20		1400		910				
6:25		1400		940				
6:30	1:45	1400		970				
6:35	ļ	1600		1000	-			
6:40	 	1600		1020			Parting PSI appears to be	
6:45	2.00	1600		1050	-		1150	
0:43	2:00	1000		1070				
6:50		1800		1120				
6:55	 	1800		1140				
7:00	2.15	1800		1140 1150		<u>. </u>		
7.00	2010	1000		TTOU				
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B & D WELL TESTERS Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Phone (505) 397-391	4					Hobbs, New Mexico 88240
N 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						= 40.00	Unit
Company Murphy Operating				Test Date	5-13-89	LeaseTodd Lower San Andres	
Total Depth			ig Back TD		Elevation	<u> </u>	Well # 29-15
Csg size	Wt 2 (0	d	Set at		Perfs: From To		Sec 29 Twp-Bik 7S Rge 36E
Tbg size 2		<u>d</u>	Set at		fs: From	То	CountyRooseveltstateNew Mexico
			acker set at			Co. Rep	
- .	<u>-</u> ,	5		Well Informa		T	
Time of Reading	Elap Time Hrs.	Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	ВНР	Remarks
7:05		2000		1200			
7:10		2000		1210			
7:15	2:30	2000		1170			
7:20		2200		1150			
7:25		2200		1170			
7:30	2:45	2200		1180			
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B & D WELL TESTERS Step Rate Test

Phone (505) 397-3914

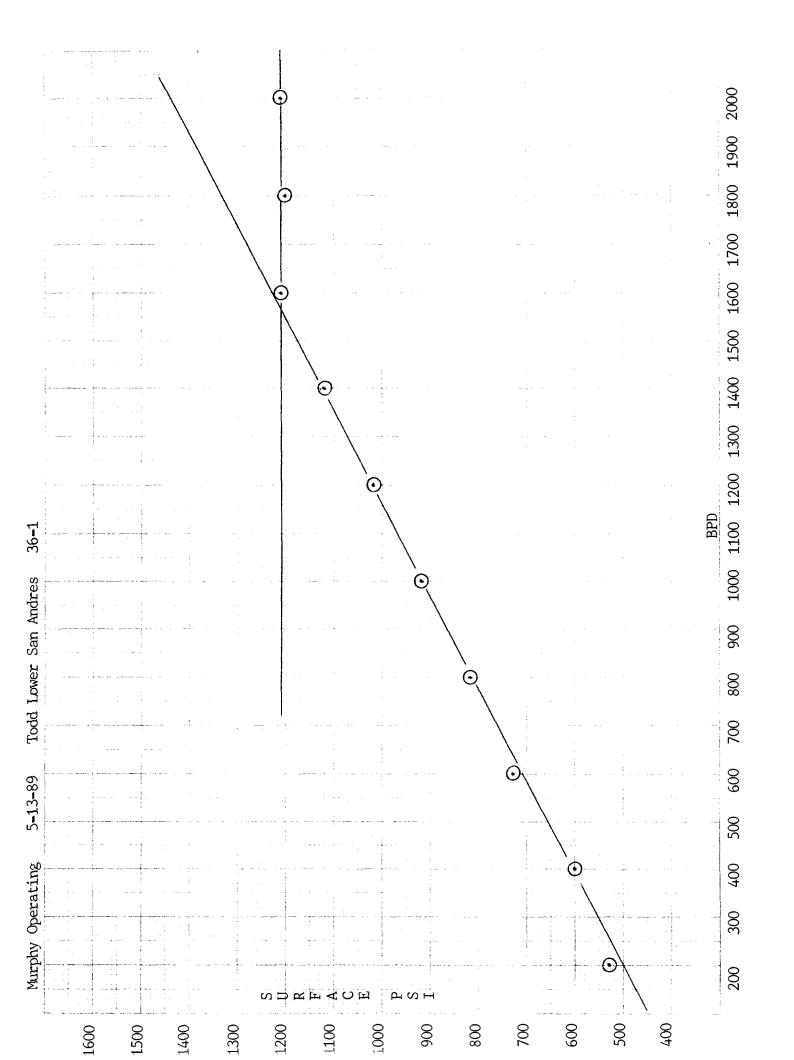
Hobbs, New Mexico 88240

Company	Murphy	Operatin	ıg		Test Date	5-13-89	Unit Lease Todd Lower San Andres		
Total Depth	1 7		Back TD		Elevation		Well # 36-1		
Csg size	Wt	d d	Set at	Pe	rfs: From	То	Sec 36 Twp-Blk 7S Rge 35S		
Tbg size 2			Set at		orfs: From	То	CountRoosevelt State New Mexico		
Producing th				acker set at			Co. Rep		
r roudomy th	Ī			Well Informa	ation		-		
Time of Reading	Elap Time	Rate BBLS Per	Total BBLS Per	Surface PSIG	Surface PSI Cor for	ВНР	Remarks		
- Todding	Hrs.	Day	Rate_		Friction				
1:25	Shut	in _		480					
1:30	Start								
1:35		200		510					
1:40		200		520					
1:45	:15	200		530					
1:50		400		570					
1:55		400		580					
2:00	:30	400		-600					
2:05		600		670					
2:10	+	600		700	+				
2:15	:45	600		730					
	+ • + 5	000		750	+				
2:20	 	800		780					
2:25	 	800		800					
2:30	1:00	800		820		· · · · · · · · · · · · · · · · · · ·			
2:35		1000	7	870					
2:40	1	1000		900					
2:45	1:15	1000		920					
		1500							
2:50		1200		980					
2:55		1200		1000					
3:00	1:30	1200		1020					
3:05		1400		1090					
3:10		1400		1110					
3:15	1:45	1400		1120					
3:20		1600		1180			Parting PSI apperars to be		
3:25		1600		1200			1210		
3:30	2:00	1600		1210					
3:35		1800		1230					
3;40		1800		1200					
3 : 45	2:15	1800		1200					

B & D WELL TESTERS

Page 2

Step Rate Test Hobbs, New Mexico 88240 Phone (505) 397-3914 Unit Test Date 5-13-89 Lease Todd Lower San Andres Company Murphy Operating Well # 36-1 Plug Back TD Elevation **Total Depth** Sec 36 Twp-Bik7S Rge 35E Wt d Set at Perfs: From Csg size To Tbg size 2 3/8 Wt Count Roosevelt State New Mexico Perfs: From То d Set at Co. Rep Producing thru Packer set at Well Information Time Elap Rate Total Surface Remarks of Time **BBLS BBLS** Surface PSI Cor BHP PSIG Per Per for Reading Rate Friction Hrs. Day 3:50 1200 2000 3:55 2000 1210 4;00 2:30 2000 1210



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE June 26, 1989

GARREY CARRUTHERS

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88240 (505) 393-6161

OIL CONSERVATION DIVISON
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Murphy Operating Corp. Todd Lower SA Unit #29-15-0 29-7-36

Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Very truly yours

Jerry Sexton

Supervisor, District I

/bp

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

June 26, 1989

GARREY CARRUTHERS

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88240 (505) 393-6161

OIL CONSERVATION DIVISON
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Murphy Operating Corp.	Todd Lower SA Unit	#36-1-A	36-7-35	
Operator	Lease & Well No.	Unit	S-T-R	
and my recommendations are as fo	llows:			
0/				

Very truly yours

Jerry Sexton

Supervisor, District I

/bp

