STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: K-3582

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name: TODD LOWER SAN ANDRES UNIT

2. Name of Operator: MURPHY OPERATING CORPORATION

8. Farm or Lease Name: TLSAU Sec. 32

3. Address of Operator: P. O. Drawer 2648, Roswell, New Mexico 88201

9. Well No.: 4

4. Location of Well: UNIT LETTER D, 460 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE, SECTION 32 TOWNSHIP 7 South RANGE 36 East NMPM.

10. Field and Pool, or Wildcat: Todd Lower San Andres Associated

15. Elevation (Show whether DF, RT, GR, etc.): 4126.7' G.R.

12. County: Roosevelt

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [X]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER [ ]		OTHER clean out, perforate & treatment [X]	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10-29-84 RU PU. Unseat pump & TOH w/rods & Pump. TIH w/jt. of tbg. & tagged btm. 16' in on tag jt. (4274.25'). POH. TIH w/new 4-3/4" bit, 4 D.C. to 4275'. RU power swivel & hot oil truck & cleaned out to 4287' (float shoe). Drlg. to 4305'. POH & layed dn. swivel.

10-30-84 TOH w/bit, RU & TIH w/sand pump, cleaned out 8' of sand & frac balls. TIH & ran Gamma Ray Neutron Log - 4310' (KBM) - 4302' (GL) logged back to 3900' (see log attached). TOH w/log. TIH w/perf gun & perforated as follows: 1 JSPF, 60 holes 4304' - 4244'. TIH w/Guiberson UNI I Pkr. & set @ 4110' & acidized w/500 gals. Xylene, 2000 gals 28% NEFE, 500# TBA 110 salt block mixed w/250 gals. 2% KCl gel water & overflushed w/1000 gals. 8.49# 2% KCl water @ avg. rate of 2400 psi, max. rate of 2700 psi, 5.4 BPM, ISIP 2200 psi - 5 min. 100-10 min. well on vac. TOH w/pkr. (see Treating Log attached.)

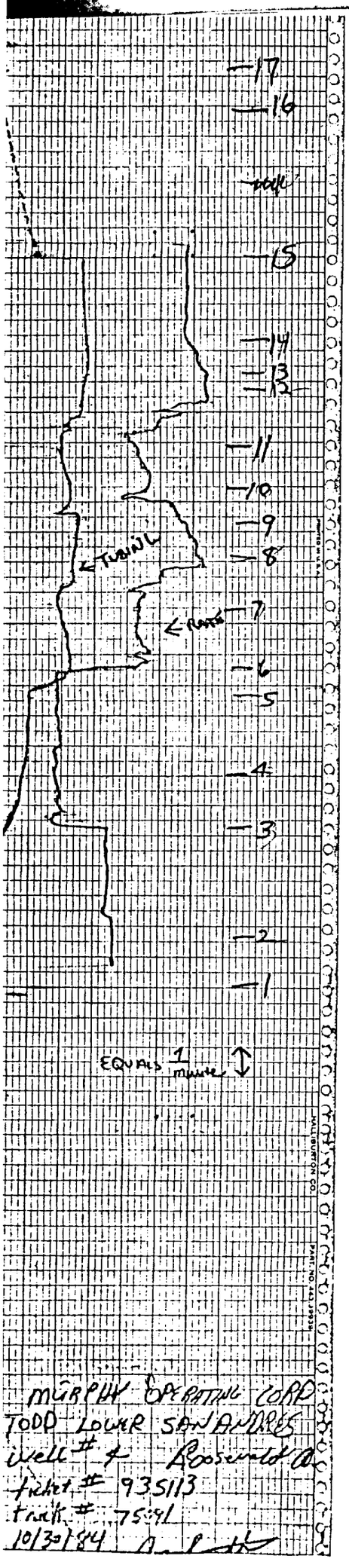
10-31-84 RU & TIH w/135 jts. 2-3/8" 4.70# J-55 tbg. to 4298.36' (8' off btm.). Pumping from 4278'. Set slips & RU WH & layed dn. Elev. & TIH w/pump, 71 - 3/4" rods & 105 - 5/8" rods, polish rod & 8' liner. RD.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Lois N. Brown Lois N. Brown TITLE Production Records DATE Nov. 30, 1984

APPROVED BY Eddie W. Seay Oil & Gas Inspector TITLE _____ DATE DEC - 4 1984

CONDITIONS OF APPROVAL, IF ANY:



MURPHY OPERATING CORP
TODD LOWER SAN ANDRES
Well # 4 Roosevelt Co. N.M.
ticket # 935113
truck # 7591
10/30/84

HALLIBURTON SERVICES
JOB LOG

WELL NO. #4 LEASE Todd Lower San Andres TICKET NO. 935113
CUSTOMER Murphy Operating PAGE NO. 1
JOB TYPE Acidize DATE 10/30/84

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								Safety meeting
1	1534	3.6	0	✓		0	0	Start ZYLENE 250 GALS
2	1536	3.6	250			"	"	" Acid 1000 "
3	1548	2	750			400		Ball Stopped
4	1541	1.8	900			800		ZYLENE ON FORMATION
5	1545	4.4	1150			1000 2200		ZYLENE IN Acid ON
6	1545	4.3	1250			2200		Start First Block 250 LBS
7	1547	5.2	1500			1900		Start ZYLENE
8	1549	5.8	1750			2400		" Acid
9	1551	4.5	2150			2200		Acid IN Block ON
10	1552	4	2250			2000		Start 2nd Block
11	1553	6.4	2500			2600		Start 3rd Stage of Acid
12	1554	"	3000			"		Start Flush
13	1555	"	3150			2700		2nd Block ON
14	1556	5.7	3400			2700		Block ON Acid IN
15	1600	5.8				2600		Flushin WITH GALS OVER
						7200		ISIP
						100		5 MINUTE
		.5 BPM Vacuum				0		10 "
								15 "
								ZYLENE — 12 BBLS.
								Block — 12 BBLS
								Load AHEAD — 4 BBLS
								TOTAL Acid — 48 "
								" Flush — 25 "
								" Load — 101 "
								MIN PRESS — 1900 PSI
								MAX " — 2700 "
								AVG " — 2400 "
								MIN RATE — 4 BPM
								MAX " — 6.4 "
								AVG " — 5.4 "

Thank You

HALLIBURTON SERVICES
JOB SUMMARY

HALLIBURTON DIVISION Midland, TX.
HALLIBURTON LOCATION Hobbs, N.M.
BILLED ON TICKET NO. 935113

WELL DATA
FIELD Todd SEC. 32 TWP. 7S RNG. 36E COUNTY Roosevelt STATE N Mex.
FORMATION NAME San Andres TYPE
FORMATION THICKNESS FROM TO
INITIAL PROD: OIL BPD, WATER BPD, GAS MCFD
PRESENT PROD: OIL BPD, WATER BPD, GAS MCFD
COMPLETION DATE MUD TYPE MUD WT.
PACKER TYPE Uni 6 GUIBERSON SET AT 4110
BOTTOM HOLE TEMP. PRESSURE
MISC. DATA TOTAL DEPTH 4307

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	14	5½	0	TD	
LINER						
TUBING	U	4.7	2⅜	0	4110	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				4244	4304	1/ft
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 10/30/84	DATE 10/30/84	DATE 10/30/84	DATE 10/30/84
TIME 0600 A	TIME 1015 A	TIME 1534	TIME 1615

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER Uni 6 5½	1	GUIBERSON
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. NORTHCUTT	33302 Unit	Hobbs
R. WALKER	75091 Pickup TRK.	"
	9181 Ranger RT	"
J. PARKER		
E. WATSON	7 SUBR	"
K Smith		

MATERIALS

TREAT. FLUID	Acid	DENSITY 9.5	LB/GAL/API
DISPL. FLUID	2% KCL	DENSITY 8.49	LB/GAL/API
PROP. TYPE		SIZE	LB.
PROP. TYPE		SIZE	LB.
ACID TYPE	N.E. FE 20%	GAL 2000	% 28
ACID TYPE		GAL	%
ACID TYPE		GAL	%
SURFACTANT TYPE	HAI 65	GAL 2 GAL	IN 2000
NE AGENT TYPE	LO SURF 259	GAL 8 GAL	IN 2000
FLUID LOSS ADD. TYPE		GAL/LB	IN
GELLING AGENT TYPE	WG 19	GAL/LB 25 LBS	IN 500 GAL
FRIC. RED. AGENT TYPE		GAL/LB	IN
BREAKER TYPE		GAL/LB	IN
BLOCKING AGENT TYPE	TBA 110	GAL/LB 500 LB	
PERFPAC BALLS TYPE		QTY.	
OTHER			
OTHER			

DEPARTMENT Acid
DESCRIPTION OF JOB Acidize AS per INSTRUCTED
JOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TBG./ANN. ☐
CUSTOMER REPRESENTATIVE X Jamie Willis
HALLIBURTON OPERATOR NORTHcutt COMP. DENSITOMETER 1

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK/SACKED	ADDITIVES	YIELD CU.FT/SK.	WEIGHT LBS/GAL.

PRESSURES IN PSI

CIRCULATING	DISPLACEMENT		
BREAKDOWN	MAXIMUM	2700	
AVERAGE	2400	FRACTURE GRADIENT	
SHUT-IN: INSTANT	2200	5 MIN. 100	15 MIN. 0

HYDRAULIC HORSEPOWER
ORDERED AVAILABLE USED
AVERAGE RATES IN BPM
TREATING DISPL. OVERALL 5.4
CEMENT LEFT IN PIPE
FEET REASON

SUMMARY

VOLUMES
PRESSURE: BBL/GAL TYPE Acid
LOAD & BKDN: BBL/GAL 48 PAD: BBL/GAL 24
TREATMENT: BBL/GAL DISPL: BBL/GAL 25
CEMENT SLURRY: BBL/GAL
TOTAL VOLUME: BBL/GAL 101

REMARKS