

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 ☒	Fee ☐
5. State Oil & Gas Lease No.	
E-8948	

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 ☒ GAS WELL ☒ OTHER-	7. Unit Agreement Name Todd Lower San Andres Unit
2. Name of Operator MURPHY OPERATING CORPORATION	8. Farm or Lease Name Todd Lower San Andres Unit Sec. 31
3. Address of Operator P. O. Drawer 2648, Roswell, New Mexico 88201	9. Well No. 7
4. Location of Well UNIT LETTER <u>G</u> <u>1830</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>31</u> TOWNSHIP <u>7 South</u> RANGE <u>36 East</u> N.M.P.M.	10. Field and Pool, or Wildcat Todd Lower San Andres
15. Elevation (Show whether DF, RT, GR, etc.) 4135' GR	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 ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	OTHER <u>reperforate and acidize</u> ☒

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.

Pulled rods and tubing. Ran gauge ring to 4285' T.D. Ran Gamma Ray Neutron Log (see attached) from 4000' - 4284'. Perforated from 4236' - 4284', one shot per foot, 48 shots total. Trip in hole with 2-3/8" tubing and spot 2 bbls. 20% NEFE acid at 4285'. Flushed with treated water and pulled out two stands and finished acid job as follows:

22 bbls. 20% NEFE Acid
12 bbls. Xylene
3 gals. Losurf-259
1 gal. HAI-50
10 gals. FE - 1A
Average rate 4.50 BPM on vacuum.
(see attached treating log)

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

SIGNED Mark B. Murphy TITLE Vice-President DATE June 12, 1984

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE JUN 14 1984

CONDITIONS OF APPROVAL, IF ANY:

CUSTOMER: MURPHY OPERATING

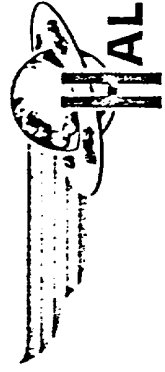
LEASE: LOWELL TODD

WELL NO.: 31-7

FIELD: N. Milnesand FORMATION: San Andres COUNTY: Roosevelt, N.M.

INVOICE NO: 727450 TREATMENT DATE: 3/7/84 TYPE: acidize 1000 gal. NE FE 20%
500 gal. Xylene

THANK YOU



ALLIBURTON SERVICES

REC-17

JUN 13 1984

HOEBS OFFICE

HALLIBURTON SERVICES

**HALLIBURTON
DIVISION**

**HALLIE , ON
LOCATION**

FRACTURING SERVICE TREATING REPORT

BILLED ON
TICKET NO. 2274.50

FORM # 2012 W-3

WELL DATA

Field N. Milnesand Sec. 31 Twp. 7S
 Formation Name San Andres Type _____
 Formation Thickness 49' From 4236 To 4285
 Initial Prod: Oil _____ Bpd. Water _____ Bpd. Gas _____ Mcfd.
 Present Prod: Oil _____ Bpd. Water _____ Bpd. Gas _____ Mcfd.
 Isolation Tool # _____ Mandrel Size _____ Extensions _____ In.
 Packer Type NONE Set At 4151
 Bottom Hole Temp. _____ RBPE _____
 Head Or Flange _____ Pdbt 4285

Rng. 36E County Roosevelt State N. Mex.

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	14	5 1/2	0	4255	
LINER						
TUBING	U		2 3/8	0	4151	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				4236	4285	60
PERFORATIONS						
PERFORATIONS						

MATERIALS

Treat. Fluid	NE-FE	Density	9.2	Lb./Gal.	DAPI
Displ. Fluid	KCL	Density	8.4	Lb./Gal.	DAPI
Prop. Type		Size		Lb.	
Prop. Type		Size		Lb.	
Radioactive Tracer		Carrier		Units-MCI	
Surfactant Type		Gal.		@	/1000 Gal.
Surfactant Type		Gal.		@	/1000 Gal.
Fluid Loss Type		Gal.-Lb.		@	/1000 Gal.
Gelling Agent		Gal.-Lb.		@	/1000 Gal.
Gelling Agent		Gal.-Lb.		@	/1000 Gal.
Breaker Type		Gal.-Lb.		@	/1000 Gal.
Breaker Type		Gal.-Lb.		@	/1000 Gal.
Crosslinker		Gal.-Lb.		@	/1000 Gal.
Stabilizer		Gal.-Lb.		@	/1000 Gal.
Buffer Type		Gal.-Lb.		@	/1000 Gal.
Buffer Type		Gal.-Lb.		@	/1000 Gal.
Bactericide		Gal.-Lb.		@	/1000 Gal.
Foam-Foamer		Gal.-Lb.		@	/1000 Gal.
Flow Control		Gal.-Lb.		@	/1000 Gal.
Diverter		Gal.-Lb.		@	/1000 Gal.
Friction Reducer		Gal.-Lb.		@	/1000 Gal.
Surfactant Balls		Qty.		Size	S.G.
Other	Xylene	500	Gal		

JOB DATA

CALLER	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 3-7-84	DATE 3-7-84	DATE 3-7-84	DATE 3-7-84
TIME 5:30	TIME 9:00	TIME 11:13	TIME 1:31

PERSONNEL AND SERVICE UNITS

[illegible]

ACID DATA

acid Type	NE-FE	%	20	Gal.-Bbl.	1000
acid Type		%		Gal.-Bbl.	
urfactant Type		Gal.		@	/1000 Gal.
urfactant Type		Gal.		@	/1000 Gal.
E Agent Type	LOS-4-259	Gal.	5	@	4 /1000 Gal.
lay Control Type		Gal.-Lb.		@	/1000 Gal.
orrosion Inhibitor	HAI-50	Gal.-Lb.	1	@	1 /1000 Gal.
orrosion Inhibitor		Gal.-Lb.		@	/1000 Gal.
racking Inhibitor		Gal.-Lb.		@	/1000 Gal.
on Sequester		Gal.-Lb.		@	/1000 Gal.
riktion Reducer		Gal.-Lb.		@	/1000 Gal.

DEPARTMENT

DESCRIPTION OF JOB TRUCK AS PER ORDER

JOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TSG./ANN. ☐

PRESSURES IN PSI

Rotating _____ Displacement _____
 Breakdown VAC Maximum 200
 Surge VAC Fracture Gradient 11-12
 P. VAC 5 Min. _____ 10 Min. _____ 15 Min. _____

HYDRAULIC HORSEPOWER

dered _____ Available _____ Used _____
AVERAGE RATE IN BPM
 ating _____ Displ. _____ Overall 4.67

AVERAGE RATE IN BPM

Rating _____ Displ. _____ Overall 4.67

stomer
representative **X** Kennie H. H. H.
Dies
quested Thad

SUMMARY

Preflush: Bbl.-Gal. _____ Type _____
Load & Bkdn: Bbl.-Gal. _____ Pad: Scf-Bbl.-Gal. _____
Treatment: Bbl.-Gal. 36 Displ: Bbl.-Gal. 45
Gas Assist _____ Tons-Scf _____ @ _____ Scf./Bbl.
Foam Quality _____ % Total Volume Foam _____ Bbl.-Gal.
Total Volume: Bbl.-Gal. 131 Fluid-Foam _____

REMARKS

Halliburton
Operator *Reynolds*

CUSTOMER _____
LEARN _____
WELL NO. _____
JOB TYPE _____
DATE _____

WELL :

LEASE

TICKET NO.

22450

CUSTOMER

Operating

PAGE NO.

JOB TYPE

DATE _____

3-7-54

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (DBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	12:13	3.4		1		VAC		START ACID TO SPOT
2	12:19		672	1		VAC		Acid on spot
3	12:29	4.2		1		VAC		start Acid
4	12:34	4.4	808	1		VAC		Acid on form
5	12:36	5.1	1308	1		VAC		500 GAL ACID IN FORM
6	12:38	5.0	1808	1		VAC		1000 " " "
7	12:41	5.0	2308	1		VAC		1500 " " " & Flush on
8	12:50	5.0	4320	1		200		2000 GAL OVERFLUSH IN FORM ISIP- VAC
9	1:27				1	VAC		Pump 500 GAL DOWN ANNULUS
								MAX PSI - 200 PSI
								min PSI VAC
								Avg PSI VAC
								MAX RATE - 5.1 RPM
								min RATE - 4.2 "
								Avg RATE - 4.67 "
								Acid - 36 BBL
								Flush - 95 "
								Total - 131 "
								THANK YOU!

Thank

VDU

HALLIBURTON SERVICES JOB LOG

WELL NO. 49 LEASE 1111111111 TICKET NO. 2111111111
CUSTOMER 1111111111 JOB TYPE 1111111111 PAGE NO. 3-284
DATE 3-2-84

FORM 1012 0-1

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
1	12:13	3.4		1	VAC	START ACID TO SPOT
2	12:19		1672	1	VAC	ACID ON SPOT
3	12:29	4.2		1	VAC	START ACID
4	12:34	4.4	808	1	VAC	ACID ON BURIN
5	12:36	5.1	1308	1	VAC	500 GAL ACID IN FORM
6	12:38	5.0	1808	1	VAC	1000 " " " + FLUSH ON
7	12:41	5.0	2308	1	VAC	1500 " " " + FLUSH ON
8	12:50	5.9	4320	1	200	2000 GAL OVERFLUSH IN FORM ISIP: VAC
9	1:27			1	VAC	Pump 500 GAL DOWN ANNULUS
						max PSE - 200 PSE min PSE VAC Avg PSE VAC
						max RATE - 5.1 BPM min RATE - 4.2 " Avg RATE - 4.67 "
						Acid - 36 BBL Flush - 95 " Total - 131 "

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HALLIBURTON SERVICES

HALLIBURTON DIVISION

LOCATION 1111111111

DATE 11/11/84

FRACTURING SERVICE TREATING REPORT

WELL NO. 222450

FORM 1012 0-2

Field N. MILWESAND Sec. 31 Twp. 75 WELL DATA
Rm. 36E County ROUSEAU State MT
Formation Name SAN RAFAEL Type
Formation Thickness 49' From 4236 To 4285
Initial Prod. Oil Bpd. Water Bpd. Gas Mcfd.
Present Prod. Oil Bpd. Water Bpd. Gas Mcfd.
Isolation Tool # Mandrel Size Extensions In.
Packer Type NONE Set At 4151
Bottom Hole Temp. RBP
Head Or Flange Pds 4285

ITEM USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	14	5 1/2	0	4285	
LINER					
TUBING	23 1/2	0	4151		
OPEN HOLE					
PERFORATIONS			4236	4285	60
PERFORATIONS					
PERFORATIONS					

MATERIALS

Treat. Fluid NE-FE Density 9.2 Lb./Gal. API
Displ. Fluid RCL Density 8.4 Lb./Gal. API
Prop. Type Size Lb.
Prop. Type Size Lb.
Radioactive Tracer Carrier Units-MCI
Surfactant Type Gal. /1000 Gal.
Surfactant Type Gal. /1000 Gal.
Fluid Loss Type Gal.-Lb. /1000 Gal.
Gelling Agent Gal.-Lb. /1000 Gal.
Gelling Agent Gal.-Lb. /1000 Gal.
Breaker Type Gal.-Lb. /1000 Gal.
Breaker Type Gal.-Lb. /1000 Gal.
Crosslinker Gal.-Lb. /1000 Gal.
Stabilizer Gal.-Lb. /1000 Gal.
Buffer Type Gal.-Lb. /1000 Gal.
Buffer Type Gal.-Lb. /1000 Gal.
Bactericide Gal.-Lb. /1000 Gal.
Non-Foamer Gal.-Lb. /1000 Gal.
Clay Control Gal.-Lb. /1000 Gal.
Diverter Gal.-Lb. /1000 Gal.
Friction Reducer Gal.-Lb. /1000 Gal.
Perfpac Balls Qty. Size S.G.
Other XYLANT 500 GAL

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
3-7-84	9:00	3-7-84	9:00	3-7-84	9:00	3-7-84	9:00

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Jones	2412	1111111111
J. Smith	2410	1111111111

ACID DATA

Acid Type NE-FE % 20 Gal.-Bbl. 1200
Acid Type % Gal.-Bbl.
Surfactant Type Gal. /1000 Gal.
Surfactant Type Gal. /1000 Gal.
NE Agent Type LOC-111-200 Gal. /1000 Gal.
Clay Control Type Gal.-Lb. /1000 Gal.
Corrosion Inhibitor HAF-511 Gal.-Lb. 1 /1000 Gal.
Corrosion Inhibitor Gal.-Lb. /1000 Gal.
Cracking Inhibitor Gal.-Lb. /1000 Gal.
Iron Sequester Gal.-Lb. /1000 Gal.
Friction Reducer Gal.-Lb. /1000 Gal.

PRESSURES IN PSI

Circulating VAC Displacement
Breakdown VAC Maximum 200
Average VAC Fracture Gradient 11-A
ISIP VAC 5 Min. 10 Min. 15 Min.

SUMMARY

Preflush Bbl.-Gal. Type
Load & Bkdn Bbl.-Gal. Pds. Sct Bbl.-Gal.
Treatment Bbl.-Gal. 310 Disph Bbl.-Gal. 95
Gas Assist Tons-Sct Sct/Bbl.
Foam Quality Total Volume Foam Bbl.-Gal.
Fluid Foam