

CUSTOMER: 320, INC. LEASE: Federal WELL NO. 1-11 JOB TYPE: Completion DATE: 11-19-73

WILDCAT SEC. 17 TWP. 22 RING. 9 8 COUNTY San Juan STATE NM

FORMATION NAME Green Horn TYPE Line sand
 FORMATION THICKNESS 3' FROM 4634 TO 42
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 VISC. DATA _____

WELL DATA

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING	3	4 1/2	0	4370	12.5	4200
LINER					12.5	
TUBING						
OPEN HOLE					TOTAL DEPTH:	
PERFORATIONS			4634	42	2	SHOTS/FT.
PERFORATIONS						SHOTS/FT.
PERFORATIONS						SHOTS/FT.

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-19-73</u>	DATE <u>1000</u>	DATE <u>1404</u>	DATE <u>1425</u>
TIME <u>0400</u>	TIME <u>1000</u>	TIME <u>1404</u>	TIME <u>1425</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
LEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	EMPL. NO.	UNIT NO. & TYPE	LOCATION
<u>Fulze</u>			
<u>Alexander, Dist</u>			
		<u>2 HT-400</u>	<u>Farrington</u>
		<u>1 Blender</u>	
		<u>#2 Acid</u>	
		<u>2 Sand</u>	

MATERIALS

TREAT. FLUID Water DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE Sand SIZE 20-40 LB. 6,000
 PROP. TYPE " SIZE 10-20 LB. 6,000
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE HCL (12 gal water) GAL. 4000 % 28
 ACID TYPE _____ GAL. _____ % _____
 SURFACTANT TYPE Senie Inn GAL. 50 IN 20,000
 VES AGENT TYPE Perfo GAL. 20 IN 20,000
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
 BREAKER TYPE _____ GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFFAC BALLS TYPE _____ QTY. _____
 OTHER HCL #2 SKS - 20
 OTHER _____

DEPARTMENT Cementing
 DESCRIPTION OF JOB Sandster

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X /s/ Harry L. Bigbee

HALLIBURTON OPERATOR Fulze COPIES REQUESTED _____

CEMENT DATA

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

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PREFLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN 2000 MAXIMUM 3000 LOAD & BKDN: BBL.-GAL. 1500 PAD: BBL.-GAL. _____
 AVERAGE 3000 FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. 13,950 DISPLT BBL.-GAL. 4170
 SHUT-IN INSTANT 2000 5-MIN. 2000 15-MIN. 2500 CEMENT SLURRY: BBL.-GAL. _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 10,600
 ORDERED 1500 AVAILABLE _____ USED 1000 REMARKS _____
 AVERAGE RATES IN BPM _____
 CEMENTING 20 DISPL. 50 OVERALL 12 CEMENT LEFT IN PIPE _____
 REASON _____

CUSTOMER

JOB LOG

CUSTOMER ECO, Inc.
JOB TYPE Sandwater

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FORM 2013

CHART NO.	TIME	RATE (BPM)	VOLUME TUBING (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Spot 2940 gallons acid
							2900	Breakdown
			1560					Establish rate
	1404	21	0		4		3500	Start sand at 1/2#
	1405	21	1000		4		3500	Sand at 3/4#
								Run 1060 gallons acid with treatment
	1408	21	3000		4		3500	Sand at 1#
	1412	24	7000		4		3800	6,000# 20-40 sand in
								Start 10-20 sand
	1416	24	11000		4		3800	Treating
	1419	24	13950		4		3750	6,000# 20-20 sand in
			0					Start flush
	1423	24	4170				3900	Job completed
							2600	ISIP
							2525	
							2525	5 minutes
							2500	15 minutes

BCO, Inc.
Federal 1-E
Ticket 697576
11-19-73

Breakdown

Pressure-- Flowrate--

Start sand at 1/2#

Sand at 3/4#

Run 1060 gal acid w/treatment

Sand at 1#

6,000# 20-40 sand in Start 10-20 sand

Treating

10-20 sand in - start flush

Job completed

PART NO. 443 99339

BURTON CO.

4500

4000

3500

3000

2500

2000

1500

1000

500

0