

CUSTOMER
RCO, Inc.
LEASE
WELL NO. 22
DATE 10-22-70

FIELD Callup Wildcat	SEC. 22	TWP. 23	RNG. 7	COUNTY McKinley	STATE N.M.
--------------------------------	-------------------	-------------------	------------------	---------------------------	----------------------

MATERIALS USED

TYPE JOB **Sandoil**

TREAT. FLUID **Oil** DENSITY _____ LB/GAL. °API _____

DISP. FLUID **Oil** DENSITY _____ LB/GAL. °API _____

PROP. TYPE **Sand** SIZE **20-40** LB. **20,000**

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE **Reg.** GAL. **500** % **15**

ACID TYPE **Reg** GAL. **1500** % **28**

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN _____

NE AGENT TYPE _____ GAL. _____ IN _____

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. _____

PERFPAC BALLS TYPE _____ NO. _____

OTHER MATERIALS _____

CALLED OUT 10-22-70 0400 TIME	ON LOCATION DATE 0800 TIME	JOB STARTED DATE 1525 TIME	JOB COMPLETED DATE 1543 TIME
---	---	---	---

PERSONNEL AND EQUIPMENT

NAME	EMPL. NO.	UNIT NO. & TYPE	LOCATION
Pulte			
Sheppard		3 HT-400	Farmington
		2 Acid	
		1 Fire	
		2 Sand	

HYDRAULIC HORSEPOWER

AVAILABLE _____ USED **2417**

AVERAGE RATES IN BPM

TREATING _____ DISPL. _____ OVERALL **34**

PRESSURES IN PSI

BREAKDOWN **3200** MAXIMUM **3000**

AVERAGE **2900** DISPLACEMENT **3000**

SHUT-IN: INSTANT **1050** 5-MIN. **1000** 15-MIN. _____

FRACTURE GRADIENT _____

WELL DATA

FORMATION **Callup** DATE COMPLETED **new**

INIT. PROD: OIL _____ BPD; WATER _____ BPD; GAS _____ MCF

PRES. PROD: OIL _____ BPD; WATER _____ BPD; GAS _____ MCF

CASING: SIZE **4½** WEIGHT **10.5** DEPTH **5650**

LINER: SIZE _____ FROM _____ TO _____

OPEN HOLE: SIZE _____ FROM _____ TO _____

PERF: **5568-72; 5584-87; 5592-99; 5602-03**

SHOTS/FT. **2** TOTAL NO. **30**

VOLUMES

LOAD & BKDN: BBC. GAL. **1470+1500 acid** PAD: BBL. GAL. _____

TREATMENT: BBC. GAL. **19,920** DISPL: BBL. GAL. **4130**

TOTAL BBC. GAL. **25,520**

CUSTOMER REPRESENTATIVE **X /s/ Flint**

HALLIBURTON OPERATOR **Pulte** COPIES REQUESTED _____

TREATING LOG

CHART NO.	TIME	OPERATION AND/OR AMOUNT AND TYPE FLUID PUMPED	RATE BPM	PUMPS		PRESSURE - PSI		REMARKS
				T	C	TUBING	CASING	
		Breakdown					3200	
		Pump in 1500 gallons 28% Acid						
	1525	Start sand at 1/2"	34		6		3000	
	1526	Sand at 1"	34		6		3000	
	1529	Treating	34		6		2900	
	1533	Treating	34		6		2800	
	1539	Start flush	34		6		2900	
	1540	Run 500-gal acid						
	1541	Start flush						
	1543	Stage completed	34		6		3000	