

SHELL OIL COMPANY

Government  
WELL NO. 21-22A

**DRILLING REPORT**  
FOR PERIOD ENDING

Bisti  
(FIELD)  
San Juan, New Mexico  
(COUNTY)

3-10-61

22  
(SECTION OR LEASE)  
T. 25 N., R. 11 W.  
(TOWNSHIP OR RANCHO)

DAY 1961	DEPTHS		REMARKS
	FROM	TO	
2-27	4940 (TD)		Moved in pulling unit. Checked fill at 4905' (5' below perforations).
2-28			Spotted 200 gallons mud acid over perforations. Pulled tubing. Sand water fracture treated with 40,000 gallons water, 1#/gallon sand. Broke down at 1500 psi, injected 36 BPM rate at 2000 psi. Pressure dropped to 100 psi 5 minutes after job. Casing on vacuum in 2 hours. Found fill (frac sand) at 4900'. Bailed to 4910'.
3-1			Swabbed water (estimated 100 barrels) in 8 hours. Lowered fluid level from 2600' to 3400'.
3-2			Swabbed approximately 100 barrels water, trace oil in 10 hours. Casing pressure increased during swabbing from 60 psi to 225 psi. Well gassed after each run but would not flow.
3-3			Swabbed 110 barrels gross, 25 barrels oil in 11 hours. Fluid level rose from 4000'± to 3300'±.
3-4			Swabbed approximately 50 barrels gross in 9 hours, 50% cut. Well flowed 15-20 minutes after each swab run. Casing pressure declined from 500 psi at 8:00 A.M. to 200 psi at 5:00 P.M.
3-5			Swabbed 25 barrels gross in 10 hours, mostly water. Swabbed from bottom with fluid level 4500'±. Showed less tendency to flow than on previous day.
3-6			After 10 hours shut down casing pressure was 400 psi; fluid level 4000'±. Ran swab twice, recovered mostly water. Casing pressure dropped to 300 psi.
3-7			Installed pumping unit.
3-8			Started pumping 3:00 P.M. No gauge.
3-9			Did not pump up. Respaced.
3-10			Pumped 18 B/D oil and water (not cut).

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	166	8-5/8"	166'
7-7/8"	166	4940	4-1/2"	4937'
DRILL PIPE SIZES 4-1/2"				

M. W. McGarry, Jr.

*MW*  
SIGNED

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DAY	DEPTHS		REMARKS
	FROM	TO	
3-11	4940 (TD)		Pumped 7 barrels gross. Engine down part of day. 100% cut, trace of oil.
3-12			Pumped 30 B/D gross, 16 B/D oil, 47% cut; gas not measured.
3-13			Engine down on pumping unit. Repaired. Well pumping again at 2:00 P.M.
3-14			Pumped 20 barrels gross, 10 barrels oil in 24-hour period but engine went down during night. Replaced regulator on engine.
3-15			Pumped 18 B/D gross, 17 B/D oil, 6% cut, gas not measured (24-hour test).
3-16			Pumped 4 barrels gross, 1 barrel oil. Engine down overnight. Returned to operation noon.
3-17			Pumped 15 B/D gross, 14 B/D oil, 7% cut, gas not measured. Hooked up portable separator.
3-18			Pumped 9 B/D gross, 8 B/D oil, 10% cut, no gas.
3-19			Pumped 11 B/D gross, 6 B/D oil, 45% cut, 18 MCF/D gas, GOR 3000.
3-20			Pumped 11 B/D gross, 6 B/D oil, 45% cut, 50 MCF/D gas, GOR 8330.
3-21			Pumped 7 B/D gross, 2 B/D oil, 70% cut, 58 MCF/D gas, GOR 29000.
3-22			REPRESENTATIVE INITIAL PRODUCTION: Pumped 11 B/D gross, 6 B/D oil, cut 45%, 18 MCF/D, GOR 3000. Completed 3-8-61.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	166	8-5/8"	166'
7-7/8"	166	4940	4-1/2"	4937'
DRILL PIPE SIZES 4-1/2"				

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