

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY El Paso Natural Gas Products Company, Post Office Box 1560, Farmington, New Mexico
(Address)

LEASE Brimhall WELL NO. 1 UNIT K S 17 T 29N R 14W
DATE WORK PERFORMED October 2, 1962 POOL Cha Cha Gallup

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☐ Plugging ☒ Other Sandoll Fracture

Detailed account of work done, nature and quantity of materials used and results obtained.

Total Depth 4720'. Clean Out Total Depth 4687'.

Sandoll fractured Gallup through perforations (4580'-4589' and 4629'-4632' -- 4 shots/ft.) with 28,728 gals. lease crude and 40,000# (20-40) sand w/0.05#/Gal. Adomite Mark II and 5 gals./1000 Gals. of J-105 Friction Reducing Agent. Flushed with 3360 gals. lease crude. Injection Rate: 38.8 BPM. Breakdown Pressure 1600#, Maximum Treating Pressure 2750#, Average Treating Pressure 2625#. Spotted 200 gals. 7-1/2% BDA across perforations prior to fracturing.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		

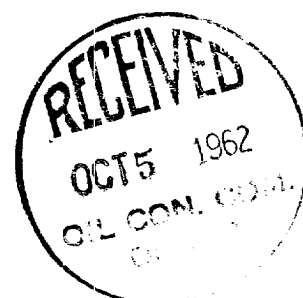
(Company)

OIL CONSERVATION COMMISSION

Name Original Signed Emery C. Arnold
Title Superintendent #3
Date OCT 5 1962

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

Name John J. Stojek
Position Petroleum Engineer
Company El Paso Natural Gas Products Company



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1. The first part of the report is a general description of the project. It includes the title, the objectives, the scope, and the methodology. The title is "The Effect of Temperature on the Rate of Reaction of Hydrogen Peroxide with Potassium Iodide". The objectives are to determine the effect of temperature on the rate of reaction and to determine the activation energy of the reaction. The scope is to study the reaction at different temperatures. The methodology is to use the iodine clock reaction to measure the rate of reaction.

2. The second part of the report is a description of the experimental procedure. It includes the list of materials, the list of equipment, and the step-by-step procedure. The materials are hydrogen peroxide, potassium iodide, sulfuric acid, and sodium thiosulfate. The equipment are a conical flask, a stopwatch, and a thermometer. The procedure is to mix a known volume of hydrogen peroxide with a known volume of potassium iodide and sulfuric acid, and then measure the time taken for the reaction to complete.

3. The third part of the report is a description of the results. It includes a table of the data, a graph of the rate of reaction against temperature, and a calculation of the activation energy. The data is as follows:

Temperature (°C)	Time (s)
10	120
20	60
30	30
40	15

The graph shows that the rate of reaction increases with temperature. The activation energy is calculated to be 50 kJ/mol.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100