

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

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 Date: August 1976
 Field Name: Springs Upper Penn Gas
 Location: T-20-S, R-26-E, Sec. 34; T-21-S, R-25-E, Sec. 2, 3.
 County & State: Eddy County, New Mexico

Discovery Well: Gulf #1 Springs Unit, SW/4 NW/4 Section 34, T-20-S, R-26-E.
 Completed December 10, 1966.

NEW MEXICO
 OIL CONSERVATION DIVISION

Exploration Method Leading to Discovery:
 Seismic and subsurface

EXHIBIT 18

Pay Zone:
 Formation Name: Cisco (Upper Penn) Depth & Datum Discovery Well: 9587996 (-4760) 11723
 Lithology Description:

White to tan to brown, mostly medium to very coarse crystalline, some fine crystalline, dolomite with interstitial to cavernous porosity. Dolomite is probably highly fractured.

Approximate average pay: 60 gross 30 net Productive Area 1,280 acres

Type Trap: Stratigraphic-structural: Cisco-Canyon dolomitized barrier reef crossing southward plunging Strawn structural nose. The Cisco-Canyon Reef Isopach effectively outlines the reef trend which is characterized by almost a solid dolomitized mass from its top to its base (top of Strawn). The backreef and forereef sediments are composed of lime and clastics and are void of dolomite.

Reservoir Data:
10 % Porosity, _____ Md Permeability, 25 % Sw, _____ % So (based on electric log)

Oil: 61.8° to 68.5° no temperatures reported.

Gas: Springs Unit #1 at 0.633

Water: _____ Na+K, 3650 Ca, 1800 Mg, 15,000 Cl, 2,900 SO₄, 470 CO₂, or HCO₃, nil Fe

Specific Gravity 1.019 Resistivity 0.294 ohms @ 78 °F

Initial Field Pressure: 3341 psi @ -4760 datum Reservoir Temp. 131 °F

Type of Drive:

Water

Normal Completion Practices:

Set 5-1/2" casing with 300 to 500 sacks of cement, perforate with 1 to 2 shots per foot and acidize with 450 to 2,000 gallons of acid.

Type completion:

Normal Well Spacing 320 Acres

Flowing gas condensate and occasionally formation water.

Deepest Horizon Penetrated & Depth:

Morrow clastics at 10,110

Other Producing Formations in Field:

None, but Springs field is flanked by Morrow gas wells to the southwest and to the southeast.

Production Data:

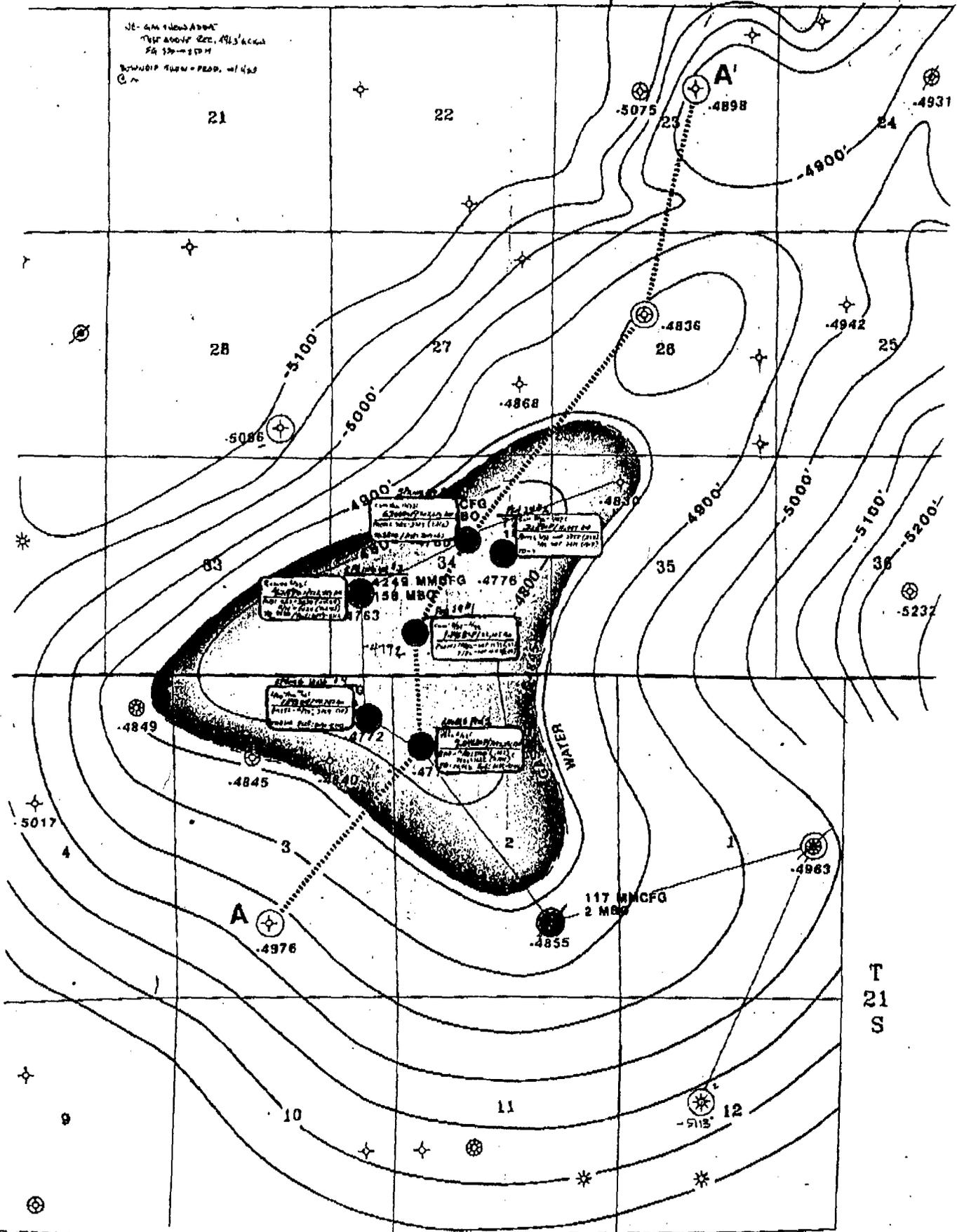
YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
68	OIL			69,413	90,276	72	OIL			37,936	539,964
	GAS	2		2,022	2,575		GAS	4		1,402	16,665
69	OIL			168,920	259,196	73	OIL			19,723	559,687
	GAS	3		4,494	7,069		GAS	4		798	17,463
70	OIL			162,819	422,015	74	OIL				559,687
	GAS	4		5,197	12,267		GAS	1	3	4	17,467
71	OIL			80,013	502,028	75	OIL				559,687
	GAS	4		2,994	15,262		GAS				17,467

Spring

R 26 E

Spring

JE-AM 1/20/00
This area is Sec. 483's area
PA 120-120 M
Boundary shown = P.E.O. of 4/22
C.M.



T 21 S