

FIELD FLOW TEST DATA

Date: 3-2-63

Operator: SHAR ALAN

Lease: JICAPILLA #9-2

Location: SE/4 Sec 2 - 23N - 2W

County: Rio Arriba State: N.M.

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ 3317

Tubing: 1 1/2 " Set @ _____

Pay Zone: 3166 To: 3176
3135 To: 3152

Total Depth: 3370

Choke Size: 3/4 TMC

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing x Tubing _____

Shut-in Pressure Casing: 836 psig / 12 = 848 psia (Shut-in _____ days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 181 psig / 12 = 193 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 42 °F / 460 = 502 °Absolute

F_{pv} (from tables) : 1.021 Gravity Est .640 n .85

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

Q =

= 2401 MCF/D

$$12.365 \times 193 \times 1.0178 \times .9682 \times 1.021$$

n

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\left[\frac{719,104}{681,855} \right]^n$$

=

$$1.0346 \approx 1.0462$$

Aof =

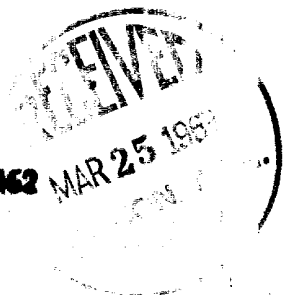
2512

MCF/D

Tested By: D. W. Stiles

Witnessed By: Don Burton

GELECTRIC INC.



OPEN FLOW TEST DATA

Date: 3-2-63

Operator: SMAN ALAN

Lease: JIRABILLA #43

Location: SW 1/4 Sec 2 23N-2W

County: San Andres State: N.M.

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ 3183 ' Tubing: 1 1/2 " Set @ 3050

Pay Zone: 3042 ' To: 3049 ' Total Depth: _____

Choke Size: 3097 3/4 THG " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 210 psig / 12 = 922 psia (Shut-in 1 days)

Shut-in Pressure Tubing: 210 psig / 12 = 922 psia

Flowing Pressure: P : 236 psig / 12 = 238 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 44 °F / 460 = 504 °Absolute

F_{pv} (from tables) : 1.026 Gravity Est. .640 n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = \frac{12.365 \times 238 \times 1.0157 \times .9682 \times 1.026}{1.0714} = 2262 \text{ MCF/D}$$

Open Flow - Aof = Q

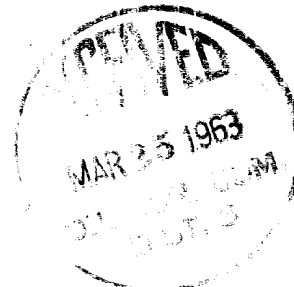
$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\frac{850,084}{793,440}} = 1.0714 \approx 1.0603$$

$$Aof = 3140 \text{ MCF/D}$$

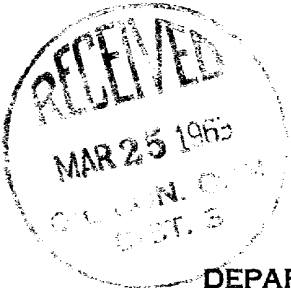
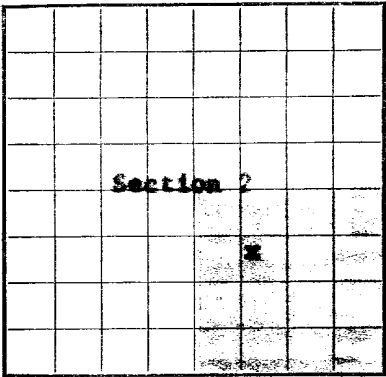
Tested By: D. W. Stiles

Witnessed By: Don Burton

GELECTRIC INC.



U. S. LAND OFFICE Dulce, New Mexico
SERIAL NUMBER Jicarilla No. 156
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shar-Alan Oil Company Address 1402 Denver U. S. National Center
Lessor or Tract Jicarilla "B" No. 156 Field Undesignated PC State New Mexico
Well No. 2 Sec. 2 T. 23N R. 2W Meridian NMPM County Rio Arriba
Location 1850 ft. N of S Line and 1850 ft. NE of E Line of SE 1/4 Elevation 7361.22
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
so far as can be determined from all available records.
Signed Richard S. Hunt

Date March 11, 1963 Title Mgr. of Lands & Explorations

The summary on this page is for the condition of the well at above date.

Commenced drilling 10-2-62, 19____ Finished drilling 10-7-62, 19____

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3135-3152 to (s) No. 4, from _____ to _____
No. 2, from 3166 to 3176 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8"	240	80	CPI	100'			3135	3152	Prod.
4 1/2"	9.50	80	CPI	3317'			3155	3176	Prod.
1 1/4"	7.50	80	CPI	3166'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	100'	60	alliburton		
4 1/2"	3317'	100			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to 3370' feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2512 MCF/d
848 1-hr. Back Pressure Test

Rayco Drilling Company _____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2785	2925		Ojo Alamo
2925	3085		Kirtland
3085	3134		Fruitland
3134			Pictured Cliffs
3215			Lewis Shale
			Subject well sand fraced 12-20-62 with 30,000 sand and 39,000 gallons o f water
			3 hr Back Pressure test run 3-2-63
			Charts attached.

