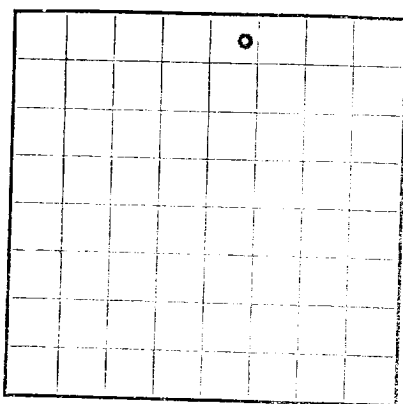




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1104 Bart Bldg., Dallas, Texas
Lessor or Tract Parcel Field Wildcat State New Mexico
Well No. 1 Sec. 19 T. 1 R. 1 Meridian N. 10. E. County Lee
Location 660 ft. N. of Line and 100 ft. E. of Line of Sec 19-21-38 Elevation 3502
(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.

Date 5-23-53Signed [Signature]Title Drilling Engineer

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

Commenced drilling 5-1-52, 19 52 Finished drilling 5-11-53, 19 53

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7300 to 7422 No. 4, from to
No. 2, from to 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—	
13-3/8	4.5	8		217	Guide				Surface
9-5/8	36.4	8		3511	Flow				Intermediate
5-1/2	13.5	17		7.54	Flow				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	228	230	1 in 10		
9-5/8	3496	3175	"		
5-1/2	7905	350	"		

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 0 feet to 4-10 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing 5-1-53, 19 53
The production for the first 24 hours was 2.3 barrels of fluid of which 1.0 % was oil; % emulsion; % water; and % sediment.

Gravity, $^{\circ}\text{Bé}$. 37.1
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Gackle Drilling Co., Driller , Driller
 , Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Geological	Top of electric log		
Anhydrite	1520		
Base of Salt	2750		
San Andres	435		
Ochoyeta	5572		
Paddock	5720		
Blindary	6040		
Tub s	6530		
Drinkard	6848		
Abu	7080		
Devon n	7340		
Silurian	7780		
tn	9208		

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
0	100	100	Surface and bed beds
100	1590	1490	beds
1590	2760	1270	anhydrite and salt
2760	3710	950	anhydrite
3710	5700	1990	Dolomite, sand and shale
5700	5775	75	lime
5775	7100	1525	Dolomite
7100	8210	1110	lime and Dolomite
8210	8775	565	lime and shale
8775	9000	225	Chert, lime and Dolomite
9000	9100	100	Dolomite
9100	9208	108	lime and Chert

Well history

Spent 3-23-53
Comp 6-11-53
13-3/8" CG 228 w/230 sks. (circulated)
1-4/9" CG 3496 w/3175 sks. (circulated)
-1/2" CG 7905 w/350 sks. (Top of cement 5620')

DET #1 - 4021-4390; Open 1 hr. Rec. 130' mudw/slight show of gas. Flow press. 50 psi to 59 psi. 30 min SIP 98 psi.

DET #2 5556-5651 Open 1 hr. Rec. 90' mud. No show. FI 18 to 44 psi.

DET #3 5973-6041 Open 30 min. Rec. 5' mud. No show. FI zero.

DET #4 6645-6750 Open 30 min. Rec. 5' mud. No show. FI zero.

DET #5 6745-6850 Open 1 hr. Rec. 30' mud very slightly gas cut. No show oil.

DET #6 7115-7200 Open 30 min. Rec. 5' ud. No show. FI zero, 30 min SIP zero.

DET #7 7179-7297 Open 45 min. Rec. 5' mud. No show. FI 18 psi.

DET #8 7250-734 Open 1 hr. Rec. 45' mud. No show. FI 33 psi, 30 min SIP zero.

DET #9 7313-7419 Open 6 hrs. Gas to surface 11 min. Oil to surface in 1 hr. 29 min. Tested 17 bbls/hr. w/3" choke. 300 1290 CF/B. Tested 5 bbls/hr. w/1" choke. 300 1290 CF/B. 30 min SIP 128 psi.

DET #10 7419-7459 Open 3 hrs. Gas to surface 11 min. Oil to surface 11 min. 30 min SIP 128 psi.

DET #11 7419-7520 Open 3 hrs. No gas to surface. Rec. 5' oil and gas cut mud. 30 min SIP 128 psi.

DET #12 7512-7570 Open 1 hr. Rec. 60' mud w/ slight show gas. FI 0 to 32 psi.

DET #13 7895-8000 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #14 8063-8227 Open 2 hrs. Rec. 1200' water w/strong H₂S odor. FI 77 to 1372 psi. 30 min SIP 3022 psi.

DET #15 8772-8855 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #16 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #17 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #18 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #19 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #20 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #21 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #22 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #23 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #24 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #25 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #26 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #27 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #28 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #29 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #30 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #31 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #32 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #33 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #34 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #35 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #36 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #37 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.

DET #38 8839-8845 Open 2 hrs. Rec. 1000' water. Slightly gas cut. FI 98 to 110 psi. 30 min SIP 3000 psi.