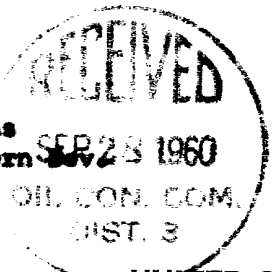


5-USGS

1-Dallas

1-Western

1-File



Budget Bureau No. 42-R365.4.
Approval expires 12-31-60.

U. S. LAND OFFICE

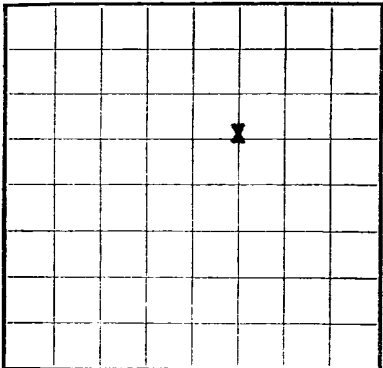
SERIAL NUMBER **SF-078895**

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **Southwest Production Co.** Address **162 Petr. Center Bldg., Farmington, N M.**
Lessor or Tract **Holloway Federal** Field **Undes. (Dakota)** State **New Mexico**
Well No. **#4** Sec. **7** T. **27N** R. **11W** Meridian **NMPM** County **S. J.**
Location **1650** ft. **N.** of **S.** Line and **1650** ft. **E.** of **W.** Line of **Sec. 7** Elevation **6097.6** GL
(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.
Original signed by **Carl W. Smith**
Signed _____

Date **9/23/60** Title **Production Supt.**

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

Commenced drilling **July 29**, 1960 Finished drilling **August 16**, 1960

~~PRODUCER~~ GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **6315** to **6325** No. 4, from **6386** to **6412**
No. 2, from **6336** to **6346** No. 5, from **6444** to **6452**
No. 3, from **6352** to **6364** No. 6, from **6458** to **6472**
6492 6508

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—	
10 3/4	32.75#	10	Star	10 jts.					
5 1/2	15.50#	10	Star	212 jts.					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	330'	250			
5 1/2	6554'	475-2 stage DV Tool @ 2003'			
		250 ex 50/50 permix 4% gel 12 1/2# gilsonite/ex tailed in w/75 ex.			
		2nd stage thru DV tool w/150 ex 50/50 permix 4% gel.			

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 **TD 6557** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

September 16, 19**60** 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 **3,207 MCF/D** Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. **3,624 AOF-SICP 2070# after 7 days.**

EMPLOYEES

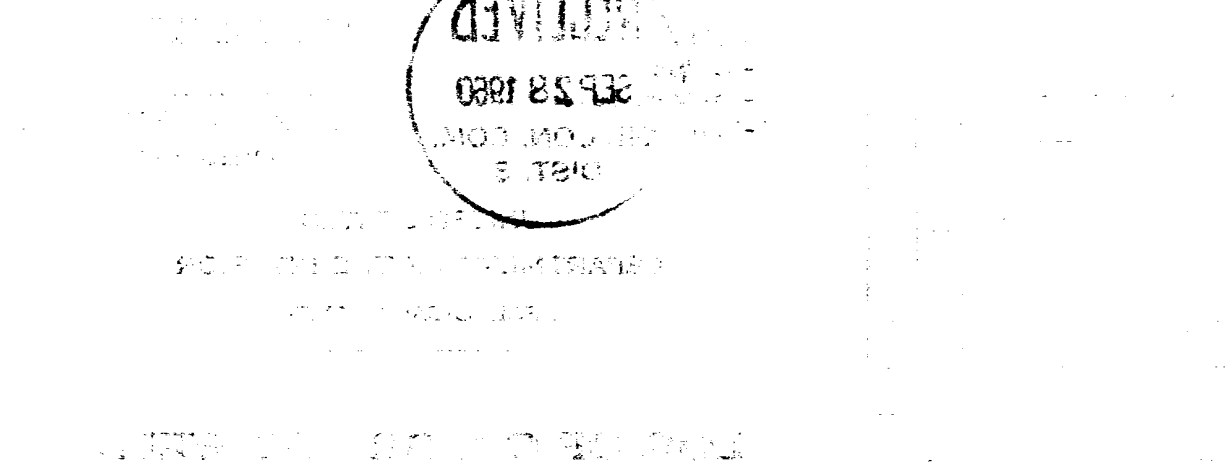
_____, Driller **J. C. Man Drilling Co.**
John Isaccs, Driller **S. H. Roberson**, Driller
C. B. Cagle, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Electric Log Tops:
			Pictured Cliffs 1800
			Gallup 5405
			Greenhorn 6227
			Graneros 6280
			Dakota 6384

Well History:

Perf. 6444-52, 6458-72 w/4 1/2 jts/ft. WIH w/Baker retrievable BP & Guiberson pkr. Set retrievable pkr. @ 6480 & Guiberson pkr. @ 6417. Acidized w/500 gals 7 1/2% MA. BD Press. 2200# TP 1800#, SIP 1300#. SWF perfs. 6444-6508 w/32,000# 20-40 sd & 35,200 gals. gelled water. FBD 2600#, TP 1800#, inj. rate 32 BPM. SIP 1600#. WIH w/tbg., circulated out sand 4356-4660 @ 4826 to bottom. WIH w/Guiberson pkr. set at 6408'. Swab well in cleaned 6 hrs. made gas & frac water. Kill well, circ. sd off Baker plug & retrievable same built a sand plug dump bailer 6520-6420. Perf. 6315-25, 6336-46, 6352-64, 6386-6412 w/4 jts/ft. SWF w/83,200 gals. gelled water & 100,000# 20-40 sd. FBD 2800#, TP 2400# Max. flush 2800#, inj. rate 53 BPM. 70 perf. plugging balls. SIP 1600#. Landed 2" EUE tbg. @ 6478'.



10-43094-2 U. S. GOVERNMENT PRINTING OFFICE

16-43094-2

FORMATION RECORD—Continued