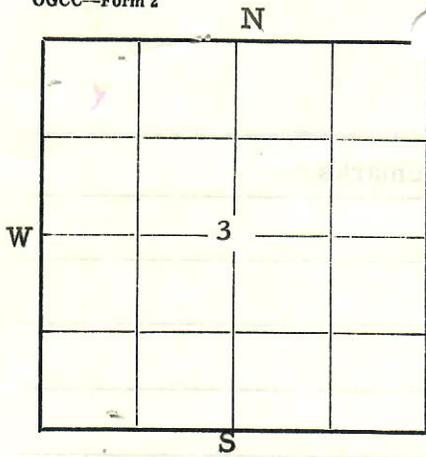


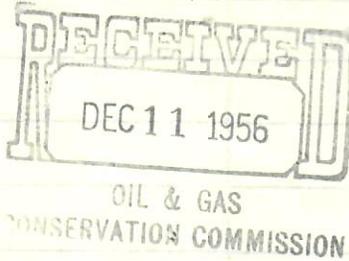


File duplicate on Fee and Patented lands and in quadruplicate on State and School lands, with

OFFICE OF DIRECTOR
OIL AND GAS CONSERVATION COMMISSION,
STATE OF COLORADO



Locate Well Correctly



LOG OF OIL AND GAS WELL

Field Pawnee Creek Company H. C. Arnold
 County Logan Address 1415 Mile High Center
 Lease State Denver, Colorado
 Well No. 4516-B Sec. 3 Twp. 7N Rge. 54W Meridian 6 State or ~~Part~~ State
 Location 660 Ft. (S) of N Line and 660 Ft. (W) of E line of 3 Elevation 4169
 (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 H. C. Arnold
 Date Nov. 12, 1956 Title Operator

The summary on this page is for the condition of the well as above date.
 Commenced drilling 9-3-56, 1956 Finished drilling 9-15-56, 1956

OIL AND GAS SANDS OR ZONES

No. 1, from 4980 to 5015 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	WT. PER FOOT	MAKE	WHERE LANDED	NO. OF SKS. CEMENT	STOOD HOURS	PRESSURE TEST PSI
5 1/2	14.5#	USED	5035	100	48	2500#
10 3/4	32 3/4	Nat'l.	172†	100	16	500#

COMPLETION DATA

Total Depth 5037 ft. Cable Tools from _____ to _____ Rotary Tools from 0 to 5037
 Casing Perforations (prod. depth) from 4993 to 4997† ft. No. of holes 16
 Acidized with _____ gallons. Other physical or chemical treatment of well to induce flow _____
 Shooting Record _____

Prod. began 9-16 1956 Making 40 bbls./day of 39 A. P. I. Gravity Fluid on Pump
 Tub. Pres. _____ lbs./sq. in. Csg. Pres. _____ lbs./sq. in. Gas Vol. _____ Mcf. Gas Oil Ratio _____
 Length Stroke 48 in. Strokes per Min. 14 Diam. Pump 1 1/2 in.
 B. S. & W. 2/10 % Gas Gravity _____ BTU's/Mcf. _____ Gals. Gasoline/Mcf. _____

WELL DATA

Indicate (yes or no) whether or not the following information was obtained.
 Electrical Log yes Date 9-12 1956 Straight Hole Survey yes Type TOTCO
 _____ Date _____ 19____ Other Types of Hole Survey _____ Type _____
 Time Drilling Record _____ (Note—Any additional data can be shown on reverse side.)
 Core Analysis yes Depth 4980 to 5015
 _____ to _____

FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATION	TOP	BOTTOM	REMARKS
Niobrara	4048		
Timpas	4378		
Carlile	4426		
Greenhorn	4613		
Graneros	4690		
Bentonite	4779		
"D"	4876		
"J"	4968		
T. D.	5037		

(Continue on reverse side)

