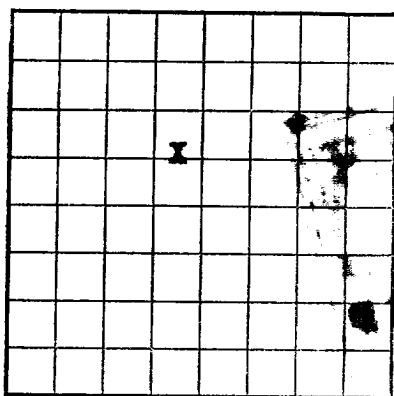
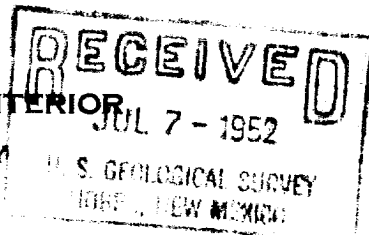


Form 9-380

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **031741 (b)**
LEASE OR PERMIT TO PROSPECT **Lease**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

*(Formerly Hawk B-10 No. 5-E)

LOCATE WELL CORRECTLY

Company **Continental Oil Company** Address **Box 427, Hobbs, New Mexico**
Lessor or Tract **W. C. Hawk B-10** Field **Brunson** State **New Mexico**
Well No. **4-B*** Sec. **10** T. **21S** R. **37E** Meridian **N.M.P.M.** County **Lea**
Location **1980** ft. **N.** of **N.** Line and **2310** ft. **E.** of **W.** Line of **Section 10** Elevation **3462**
(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 **J. R. Chittenden**Date **July 1, 1952**Title **Asst. Dist. Supt.**

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

Commenced drilling **April 4**, 19**52** Finished drilling **May 29**, 19**52**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **7920** to **8073** 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—	
10 3/4	35.75	8R	LN	209'	Guide				
10 3/4	32.75	8R	LN	70'					
7 5/8	24	8R	N-40	2890'	G. shoe & P. collar				
5 1/2	15.5	8R	J-55	2670'	G. shoe & P. collar				
5 1/2	17	8R	N-80	227'					
5 1/2	14	8R	J-55	3614'					
5 1/2	17	8R	J-55	1620'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	270	250	Pump & Plug		
7 5/8	3149	1360	Pump & Plug		
5 1/2	8078	470	Pump & Plug		

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
None						

TOOLS USED

Rotary tools were used from **0** feet to **8079** feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing **June 8**, 19**52**

The production for the first 24 hours was **1,224** barrels of fluid of which **100** % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. **45**

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Jack Hewitt, Driller **J. H. Williams**, Driller
O. A. Britton, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1290	1290	Redbeds.
1290	1390	100	Anhydrite.
1390	2440	1050	Salt.
2440	4000	1560	Anhydrite and Dolomite.
4000	5000	1000	Dolomite.
5000	7480	2480	Dolomite and Lime.
7480	7880	400	Shale and Sand.
7880	7920	40	Lime.
7920	8065	145	Dolomite.
8065	8073	10	Granite Wash.
8073	8079	4	Granite.

FROM—	TO—	TOTAL FEET	FORMATION
			DST #1, 6490-6790', Drilled formation, tool open 1 hour and 30 minutes, light blow of air throughout test. Recovered 240' of gas and oil out drilling mud. Flowing pressure 0%, 15-minute shut-in pressure 0%. Hydrostatic pressure 2975#.
			DST #2, 6890-7190', Abo formation, tool open 1 hour. Gas to surface in 5 minutes with light blow of air. Recovered 300' drilling mud and 5900' free oil. Flowing pressure 800#. 15-minute shut-in pressure 2775#. Hydrostatic pressure 3400#.
			DST #3, 7190-7465', Lower Abo formation, packer failed to hold. Drill-stem tested 7190-7465', tool open 1 hour, light blow of gas in 15 minutes. Recovered 330' gas-out drilling mud, no oil or water. Flowing pressure 250#, 15-minute shut-in pressure 500# and hydrostatic pressure 3550#.
			DST #4, 7674-7525', tool open 2 hours, 20 minutes. Gas to surface in 4 minutes, fluid in 30 minutes. Flowed 15 bbls. oil on 1 hour test. Gas 362 MCF. Flowing pressure 650#. 15-minute shut-in pressure 1350#. Hydrostatic pressure 3650#.
			DST #5, 7780-7875', Connell, tool open 90 minutes. Gas to surface in 4 minutes, fluid in 10 minutes. Flowed 54.60 bbls. oil, no water on 1 hour test. 1234 MCF gas. GOR 94.3-1. Flowing pressure 2100#. 15-minute shut-in pressure 2750#. Hydrostatic pressure 4000#.
			DST #6, 7920-7975', tool open 3 hours 30 minutes. Gas to surface in 12 minutes, light blow throughout test. Recovered 630' free oil, 540' oil and gas-out drilling mud, no water. Flowing pressure 300#. 15-minute shut-in pressure 1100#. Hydrostatic pressure 4000#.
			DST #7, 7975-8052', tool open 1 hour and 30 minutes. Light blow of air throughout test. Recovered 90' of heavy oil and gas-out drilling mud.
			DST #8, 8052-8079', Lower Ellenburger, tool open 2 hours, gas to surface in 50 minutes. Recovered 230' heavy oil and gas-out mud, no water. Flowing pressure 0#, 15-minute shut-in pressure 2500#. Hydrostatic pressure 4000#.
			Drilled to 8079'. Set 5 1/2" casing at 8078' and drilled out plug to 8075'. Bridge plugs were set at 8057' and 8001' and drilled out to 8075'. 5 1/2" casing was perforated 7966-7998' with 128 shots, 8010-8052' with 168 shots and 8061-8073' with 48 shots. Perforations were added with 5000 gallons acid. Well was not shot. 2 1/2" tubing was set at 7979'. On initial potential flow test 306 bbls. of 45 deg. gravity oil, no water, in 6 hours, then 3 3/4" shocks on 2 1/2" tubing for a daily potential of 1,224 bbls. oil, no water. Gas volume 1003 MCF per day. GOR 819. CP 100#. TP 350#.
			(The designation of W. C. Hawk B-10 No. 4-E, drilled at the above location, has been changed to W. C. Hawk B-10 No. 4-E. The well on this lease which was originally designated as W. C. Hawk B-10 No. 4-E and projected to the Ellenburger pay was completed in the Hoke pay and was then redesignated as W. C. Hawk B-10 No. 4-E. It then became necessary to redesignate W. C. Hawk B-10 No. 5-E as No. 4-E so that no well number would be missed.)

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

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