Form 9-330

Budget Bureau No. 42-R355.
Approval expires 11-30-46.

U. S. Land Office ____

Serial Number ____

Lease or Permit to Prospect ____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2180, Houston, Texas

Lessor or Tract Federal-German Field Cottonwood Wildcat State New Mexico

Well No. 1 Sec. 30 T. 15-S R. 22-E Meridian N.M.P.M. County Chaves

Location 660 ft. {N/S} of S Line and 660 ft. {E/W} of E Line of Section 30 Elevation 4168 (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 [signature]

Date December 13, 1948 Title Asst. Division Superintendent

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

Commenced drilling September 11, 1948 Finished drilling November 26, 1948

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from None to ____ 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 None 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 From—	Perforated To—	Purpose
10-3/4"	40.5	8 thd	Spang	[illegible]	[illegible]	9.8			Intermediate
7-5/8"	26.40	8 thd	Jones & Laughlin	[illegible]		305.46			Strings

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	1055.86	500	Halliburton	9.8	265,600 pounds
7-5/8"	5205.00	750	Halliburton		

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 5849 feet, and from ____ feet to ____ feet

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

DATES

____, 19__ Put to producing Dry Hole, 19__

The production for the first 24 hours was None 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. ____

EMPLOYEES

C. L. Kitchey, Driller W. H. Freeland, Driller

F. R. Baxter, Driller O. L. Spraberry, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
[illegible]	[illegible]	[illegible]	Top [illegible]
[illegible]	[illegible]	[illegible]	[illegible] and Anhydrite
[illegible]	[illegible]	[illegible]	Lime[illegible] Sand
[illegible]	[illegible]	[illegible]	Lime [illegible] Anhydrite
[illegible]	[illegible]	[illegible]	Lime, Anhy. [illegible] Shells
[illegible]	[illegible]	[illegible]	Lime[illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime and Sand
[illegible]	[illegible]	[illegible]	Lime, Sand and Anhydrite
[illegible]	[illegible]	[illegible]	Lime and Anhydrite
[illegible]	[illegible]	[illegible]	Anhydrite and Red Bed
[illegible]	[illegible]	[illegible]	Lime and Anhydrite
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime and Anhydrite
[illegible]	[illegible]	[illegible]	Lime [illegible]
[illegible]	[illegible]	[illegible]	Lime [illegible] Shale
[illegible]	[illegible]	[illegible]	Lime, Shale [illegible] Anhydrite
2140	[illegible]	45	Lime and Anhydrite
[illegible]	2241	[illegible]	Anhydrite and Shale

(OVER)

16—43094-1

Form 9-331a
(March 1942)

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

Land Office Las Cruces, N. M.
Lease No. L. C. 062669
Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FEDERAL GORMAN

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas December 8, 1948

Well No. 1 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 30

NE/4 of NE/4 of Sec. 30 (¼ Sec. and Sec. No.) 15-S (Twp.) 22-E (Range) (Meridian)

Cottonwood Wildcat (Field) Chaves (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 4168 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded hole at 7:00 AM, 9-11-48. Lost mud and circulation when hit break from 391 feet to 395 feet. Spotted 50 sacks cement on bottom of hole. Re-cemented four times and got 26' build up. Lost 2 pits of mud from 395' to 410'. Placed 50 sacks cement in hole and got 18' build up. Dumped in 3 bales of hay and regained circulation. Drilled to 1250' in anhydrite and lime formation. Reamed 9-7/8" hole to 13-3/4" hole from 0 to 1040'. Set and cemented 1020.22' of 10-3/4" casing at 1035' with 500 sacks Alamo Cement. Test of casing with 800# was OK. Lost some mud while drilling from 1271' to 1747'. Ran caliper survey at 3137'. Drilled 9-7/8" hole 3207' in lime and anhydrite formation. Circulated hole 2 hours. Ran and cemented 3190' of 7-5/8" casing at 3205' with 750 sacks of El Toro cement. Tested casing and formation with 1000# for 30 minutes and tested OK. Finished 6-3/4" hole at 5338' in lime formation. Ran caliper survey at 5337'.

(Continued on Sheet #2)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

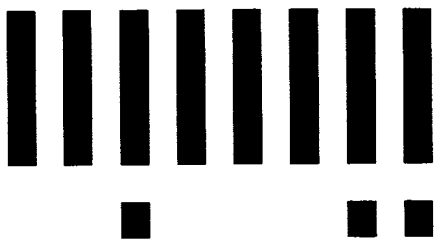
Address Box 1600

Midland, Texas

By J. P. Kinkaid

Title Asst. Division Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16-8487-3



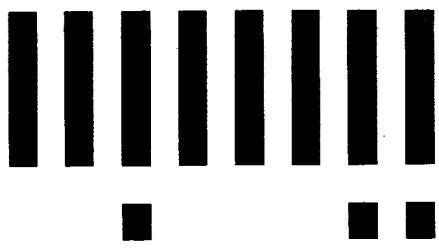
LTR

Job separation sheet

DETAILS OF WORK (Continued)

Halliburton DST from 5285' to 5338'. Slight blow of gas to surface immediately. Blow stopped after 7 minutes. Recovered 25' of drilling mud slightly gas cut. Average flowing pressure 80#. Chloride content of mud from test 4,000 PPM. Drilled 6-3/4" hole to 5577' in dolomite, chert and shale formation. Ran Halliburton DST from 5466' to 5550'. Tool open 1 hour. Recovered 80' of drilling mud with no show of oil or gas. Hydrastatic pressure 2725#. Flowing pressure zero. Shut in pressure 1500#. Drilled 6-3/4" hole to 5600' in lime and granite wash formation. Halliburton DST from 5550' to 5600'. Tool open 1 hour with good blow of air during test. Recovered 2250' of salt water with no show of oil or gas. Hydrastatic pressure 2680#. Chloride content of water in test 170,000 PPM. Drilled to 5849'. Cored from 5848' to 5849' and recovered 6 inches of granite. Ran Schlumberger Survey. Magnolia Petroleum Corporation ran Geophone Survey. Plugged well from 5449' to 5849' with 90 sacks cement, from 3000' to 3400' with 90 sacks, from 813' to 933', and 240' to surface with 100 sacks. Interval between plugs filled with mud laden fluid. 7-5/8" casing was shot at 933' and 938' was recovered. Regulation marker was installed at well.

Total depth of well 5849' in granite. No oil was recovered. Copies of all surveys and logs received have been forwarded to U. S. Geological Survey, Artesia, New Mexico.



LTR

Job separation sheet