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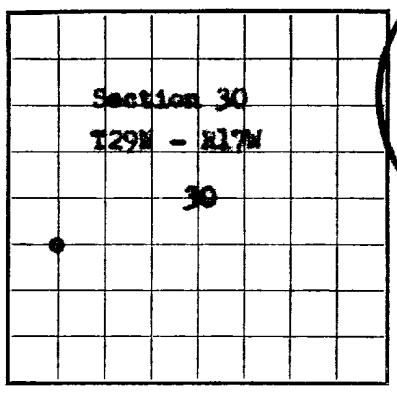
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Window Rock, Ariz
SERIAL NUMBER 14-20-603-5024
LEASE OR PERMIT TO PROSPECT
Navajo Tract #20



LOCATE WELL CORRECTLY

RECEIVED
OCT 14 1963
OIL CON. COM.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Name Change
Amerada Petroleum Corp.
To: Amerada Hess Corp.
Effective 7-1-69

LOG OF OIL OR GAS WELL

Company Amerada Petroleum Corporation Address Box 1469, Durango, Colorado
Lessor or Tract Federal Gov't. (Navajo Indian) Field Pajarito Area State New Mexico
Well No. 2 Sec. 30 T. 29N R. 17W Meridian NMPM County San Juan
Location 1980 ft. {N./S.} of S Line and 660 ft. {E./W.} of W Line of Section 30 Elevation DF-5240' KB-5241'
(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 D.F. Furse

Date October 9, 1963 Title Foreman

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

Commenced drilling 6:PM August 20, 19 63 Finished drilling 4:PM October 5, 19 63

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from Perfs. 6850' to 6860' No. 4, from to
No. 2, from Paradox "B" Zone-Plugged off. to No. 5, from to
No. 3, from Tested Open Hole 7195' to 7227' No. 6, from to
Paradox "C" Zone

Name Change
Amerada Petroleum Corp.
To: Amerada Hess Corp.
Effective 7-1-69

IMPORTANT WATER SANDS

No. 1, from 1760' to 2500' No. 3, from
No. 2, from to No. 4, from to

SEE BACK FOR FORMATION RECORD.

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
9-5/8"	32.30#	8	H&O	656'	Hall.	None- Cement circulated.			
7"	23#	8	H&O	4275'	Baker	None			
5"	15#	8	H&O	7227'	Baker	None			

Top of Liner hanger at 6117'.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	32.30#	400	Halliburton	Cement Circulated	
7"	23#	200	"	Top of Cmt. outside 7" at 4275'	
				10.4# Mud above cement behind casing.	
5"	15#	75	"	Cement behind liner.	

PLUGS AND ADAPTERS

Heaving plug—Material None 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 feet to feet, and from 0' feet to 7236' feet TD
Cable tools were used from None feet to feet, and from feet to feet

DATES

None - Dry Hole, temporarily Put to producing None, 19
The pr[illegible] 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 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

B. Halbrook, Driller W.A. Davis, Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0' to 7227'			Sand, Shale and Lime

NO CORES TAKEN

Drill Stem Test #1 - From (6848'-6870') Paradox "B" Zone, 4 Hr. Test, 3½" DP, Hal. Packer Tool open 4 Hrs., Had blow of air immediately and continued throughout test, (Gas to surface in 1½ Hrs.) TSIM. Closed tool for BHP. Recovered 120' of Gas Cut mud and 30' of very heavy gas cut mud and trace of oil, [illegible] trace of fresh water, (No briney taste in water) IHP-3202#, FHP-3075#, [illegible], FFP-53#, [illegible] Hrs. BHP 2081#.

FINAL SUMMARY OF FORMATIONS

Lower Gallup	[illegible]	[illegible]	Moenkopi	[illegible]	[illegible]
Greenhorn	1854'	+3907'	Shinarump	4130'-4232'	
Graneros	1321'	+3920'	De Chelly	4272'	+ 969'
Dakota	1358'	+3883'	Organ Rock	4732'	+ 509'
Morrison	1603'	+3638'	Upper Hermosa	6085'	- 844'
Summerville	2453'	+2788'	Paradox	6710'	-1469'
Todilto	2652'	+2589'	Paradox "A"	6731'	-1490'
			Paradox B	6834'	-1593'
Entrada	2662'	+2579'	Paradox "C"	6930'	-1689'

IMPORTANT WATER SANDS:
Possible best water sand from 1760' to 2100', with 2100' to 2500' also prospective.

SEE BACK FOR FORMATION RECORD AND IMPORTANT ABANDONMENT.

(OVER)

FOLD | MARK

FORMATION RECORD—Continued

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
9-28-63 to 10-1-63			7227' Total Depth – Bottom of 5" Liner at 7194' - Open Hole from 7194' - 7227'. Dowell acidized open hole from (7185'-7227') w/500 Gals. mud acid, spotted acid with injection rate from 1/4 to 3 bbls./Min. @ 3800#. When pump shut down pressure stood at 850#. Opened well to pit thru 2" line and flowed strong stream of water immed., acid gas to surface in 20 min. and decreased to slight trace at end of 9½ hrs. flowing. Gas would not burn. (Acid Gas) Strong Salt content in water. Drilled well from 7227' to 7236', found no trace or indication of oil or gas in samples. Set bridge plug at 7130' and squeezed open hole from (7194'-7236') with 50 Sax cement, Max. P. 4000#. Perforated by Schlumberger from (6850'-6860') w/2-Jet Shots per foot. Dowell acidized perfs. from (6850'-6860') W/250# Mud acid, W/3200#-3600#, formation took acid at 1500# breakdown. Opened well to pit on 2" tbg. flowed x Estimated 1-Bbl. water & died. Swabbed from surface to 4500' - Rec-18 Bbls. Fresh water, Continued swabbing 10 Hrs. and Rec-10 Bbls. water, no oil, small amount of gas, TSTM. Fluid level lowered from (6,000'-6,500') and no fluid entering hole. ~~Dowell Acidized perfs. from 6850' to 6860' w/1500 Gals. acid.~~ Injection rate 1.8 bbls/Min. at 1800# press. Opened well to pit on 1/2" Ch. flowed 27 bbls. fresh water to pit and died. Started x swabbing thru 2-3/8" tubing and lowered fluid level from surface to 6500', Rec-23 bbls. water & 1/2 gal. live oil, Gas TSTM. Dowell Acidized perfs. from 6850' to 6860' W/6000 Gals. acid, inj. rate [illegible] bbls/Min. at 2650#, final shut in press. 1100#. Opened well to pit on 1/2" choke, flowed estimated 100 Bbls. flush and acid water w/choke from 1/2" to 2" open tubing after pressure had slowly dropped from 1100# to 300#, had few traces of oil and well died. Swabbed 30 Bbls. water to tank w/show of oil and gas, and flowed 10 Bbls. oil and 10 Bbls. acid water, suddenly dropped off and died. Swabbed 2 Hrs. and recovered 9 bbls. acid water and 1 bbl. oil. Well open to tank 8½ Hrs. no pressure.
10-2-63 to 10-3-63			Swabbed and tested, recovered small amounts of oil and salt water with gas Volume TSTM. Well plugged and Temporarily Abandoned.

PLUGGING REPORTS USED

Spotted 15 Sacks Cement plug from 6910' to 6760' - 150' Plug in 5" liner to cover Perforations in 5" liner from 6850' to 6860'.
Did not pull any casing.
Well temporarily abandoned for possible use as Salt Water Disposal well after Navajo Tract 220 Well No. 10 Casing filled with 10.4# Mud, and capped.

SHOOTING RECORD

TEMPORARY ABANDONMENT

CASING RECORD

INFORMATION ON THIS PAGE IS FOR THE CONDITION OF THE WELL AS OF THE DATE PLUGGED

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from	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	to	No. 3, from	to
No. 2, from	to	No. 4, from	to

Name Change
Amerada Petroleum Corp.
To: Amerada Hess Corp.
Effective 1-1-69

LOG OF OIL OR GAS WELL

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DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

LEASE OR PERMIT TO PROSPECT

SERIAL NUMBER

U. S. LAND OFFICE

FORM 9-330

U. S. GOVERNMENT PRINTING OFFICE 16—43094-2

HISTORY OF OIL OR GAS WELL

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 "sidetracked" 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.

CASING RECORD

Size	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	To	Purpose

BRIDGE AND ADAPTERS

Heaving plug—Material	Length	Depth set

SHOOTING RECORD

Date	Shell used	Explosive used	Quantity	Depth shot	Depth cleaned out

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

ARAM | 0.1.0