

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

Form 9-330

U. S. LAND OFFICE

SERIAL NUMBER ~~547-2~~ ~~151~~ 151

LEASE OR PERMIT TO PROSPECT 1941-44

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Amble Oil & Refining Company Address Box 2100, Houston, Texas
Box 1100, Farmington, New Mexico

Lessor or Tract Jicarilla Apache Tr. Ind. "A" Field Blanco Mesa New Mexico State New Mexico

Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____ County _____

Location ~~300~~⁸⁸⁷ ft. of ~~134~~¹⁵³⁷ Line and ~~134~~¹⁵³⁷ ft. of ~~1~~¹ Line of ~~134~~¹⁵³⁷ Elevation ~~555~~⁵⁵⁵
(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 Russell M. Lilly
Russell M. Lilly
 Title District Superintendent

Date July 18, 1936

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

Commenced drilling April 21, 1956 Finished drilling July 2, 1956

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from G 3220 to 3244 PC No. 4, from G 5102 to 5218 KT

No. 2, from 6-1664 to 1900 47 No. 5, from 6-524 to 1111 47

No. 3, from C 436 to 440 NY No. 6, from C 540 to 544 NY

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	From—	To	Purpose
2-1/4	10	10	2011	206	2011	2011	2011	2011	2011
or more. If there is a change in the weight of the casing, the weight of the casing should be changed. If there is a change in the weight of the casing, the weight of the casing should be changed. If there is a change in the weight of the casing, the weight of the casing should be changed. It is of the kind (see symbol) used to place a complete record of the work. Please refer to section 10 of the regulations regarding this. HISTORIA OF THE U.S. NAVY									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	JTC	275	grout		
8-1/2"	SSEB	L290	grout		

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 ----- feet to ----- feet, and from ----- feet to ----- feet

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

DATES

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 ~~24,000~~ Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. ~~450~~ ~~47~~ ~~51~~ ~~FP~~

EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1226	1226	Sand and shale
1226	1235	29	Sand
1235	1570 TD	2335	Sand and shale
			Top of Mesa Verde formation 1264'
			Top of Pictured Cliffs formation 1230'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of white graph paper with a light gray grid pattern. The grid consists of small squares formed by thin gray lines. There are approximately 20 columns and 15 rows visible on the page. A single dark speck or smudge is located near the top center of the page.

The summary on this page is for the condition of the well as of _____ Date _____

Continued from _____
_____ 19____

(b) not known (b)(6)



CASTLE RECORD

10-10-68

HISTORY OF OIL OR GAS WELL

Report Number	Project Name	Location	Altitude	Number of Observations	Number of Specimens	Number of Photographs	Number of Drawings

Leaving plug—Material	Length	Depth set
Adapters—Material	Size	

Size	Steel Head	Regulation Head	Quantity	Date	Job/Job start	Depth cleaned out

Rotary tools were used from	feet to	feet to	feet to
Rotary tools were used from	feet to	feet to	feet to

1. The first of these is the fact that the Government has not yet decided whether it will accept the offer of the United States to provide a loan of \$100 million to the Government of India.	2. The second is the fact that the Government has not yet decided whether it will accept the offer of the United States to provide a loan of \$100 million to the Government of India.	3. The third is the fact that the Government has not yet decided whether it will accept the offer of the United States to provide a loan of \$100 million to the Government of India.	4. The fourth is the fact that the Government has not yet decided whether it will accept the offer of the United States to provide a loan of \$100 million to the Government of India.
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1. Name of the person or organization that is the subject of the investigation: _____ 2. Address of the person or organization: _____ 3. City and State: _____ 4. Date of the investigation: _____ 5. Name of the investigator: _____ 6. Title of the investigator: _____ 7. Agency or organization: _____ 8. Purpose of the investigation: _____ 9. Results of the investigation: _____ 10. Conclusion: _____	11. Name of the person or organization that is the subject of the investigation: _____ 12. Address of the person or organization: _____ 13. City and State: _____ 14. Date of the investigation: _____ 15. Name of the investigator: _____ 16. Title of the investigator: _____ 17. Agency or organization: _____ 18. Purpose of the investigation: _____ 19. Results of the investigation: _____ 20. Conclusion: _____
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REPORT	TO	TOTAL	NUMBER
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[illegible]

LOG OF OIL ON GAS WELL
HISTORY OF OIL ON GAS WELL

This well was drilled to a total depth of 5590', w/completion depths of 4960 and 5540' in the Mesa Verde formation and 3264' in the Pictured Cliffs formation.

Set 290' of 10-3/4" casing at 310' w/275 sks. regular neat cement.

Core #1 3185 - 3190' Cut 5', recovered 5'. 1-1/2' shale, 3-1/2' sand.

Core #2 3190 - 3196' Cut 6', recovered 3', 3' sand.

Core #3 3196 - 3216' Cut 20', recovered 8'. 5' dark gray shaly tight sand, 3' dark gray black shale w/coal inclusions.

Core #4 3226 - 3255' Cut 29', recovered 29'. Light gray, fine tight sand, scattered gas odors.

Core #5 4372 - 4904' Cut 32', recovered 32'. 20' light gray fine tight sand, slightly bleeding gas, no odor. 12' light gray fine tight sand, w/thin dark gray shale partings, slightly bleeding gas, no odor.

Core #6 5343 - 5393' Cut 50', recovered 49'. 17' black shale, gray fine sandstone, silt-stone and coal. 24' light gray, fine to medium sandstone, slightly bleeding gas and slight gas odor, slight porosity. 8' gray, fine to medium grained sandstone, w/a few 6" black shale and coal zones, slight porosity, fair gas odor.

Core #7 5393 - 5433' Cut 40', recovered 40'. 2' gray fine shaly sand, 1' dark gray shaly sand, 2-1/2' gray fine shaly sand, 1' coal, 2-1/2' gray fine to medium sand, fair gas odor, slight porosity, 4' black rotten shale, 7' light gray fine to medium sand, fair gas odor, slight to fair porosity, 7' light gray, fine to medium sand, w/occasional thin coal and shale partings, fair gas odor, trace of porosity, 13' light gray medium sand, fair gas odor and porosity.

Core #8 5433 - 5483' Cut 50', recovered 50'. 8' light gray fine tight sand, slight gas odor, 5' light gray fine tight sand, slight gas odor, 6' light gray fine tight sand, slight gas odor, 3' gray shaly tight sand, slight gas odor, 1' light gray fine tight sand, slight gas odor, 2' gray sand, w/thin black shale partings, 2' gray fine sand, slight gas odor, 2' gray fine sand, w/thin black shale partings, 5' gray fine tight sand, slight gas odor, 4' gray fine tight crushed sand, 4' gray fine tight sand, slight gas odor, 1' gray shaly sand, 7' gray fine tight sand, slightly bleeding gas.

Core #9 5483 - 5512' Cut 29', recovered 29'. 5' gray fine tight sand, slightly bleeding gas, 8-1/2' black shale, 1-1/2' light gray tight sand, slightly bleeding gas and light yellow-green oil, fair odor, 2' light gray, tight sand, hard, 3' light gray tight sand, slightly bleeding gas, and light yellow-green oil, fair odor, 2-1/2' dark gray shaly sand, 1-1/2' light gray tight hard sand, slightly bleeding oil, 5' black shale.

Set 5574' of 5-1/2" csg. at 5586', w/250 sks. 10% gel and 1000 sks. reg. neat cnt. Perf. csg. 5-1/2" from 5513-5512', and from 5522-5524' w/6 Lane Wells bullet shots/ft. Ran tubing to 5539' w/packer set at 5503'. Swabbed well dry. Howell acidized w/500 gals. mud acid. Avg. inj. rate 1-1/2 bbls/min. at 600#, followed with 25 bbls. water. Swabbed well 6-1/2 hours. Recovered acid water. Swabbed well dry w/slight show of gas w/trace of oil. Howell acidized w/4050 gals. #2 Diesel Oil and 3000# sand. Avg. inj. rate 8 bbls/min. at 4500#.

Ran tubing to 5497' w/packer set at 5462'. Swabbed well dry. On 18 hour test, produced 2-1/2 bbls. fluid (1 bbl load oil, 1 bbl water, 1/2 bbl BS).

Set bridge plug at 5567' w/1 sack of cnt. on top of plug.

Perf. 5-1/2" csg. from 5402-5418', 5424-5428', 5436-5444', and from 5460-5484' w/6 Lane Wells bullet shots/ft. Aquafraced w/40,500 gals. water and 30,000# sand. BD press. 2000#, broke to 1600#. Avg. inj. rate 50.7 bbls/min at 1600#. SIP after 15 min 400#.

Swabbed well in, produced at rate of 384 MCF/day.

Reran tubing and set Baker Magnesium bridge plug at 4960'. Perf. 5-1/2" csg. from 4864-4900' and from 4920-4940' w/6 Lane wells bullet shots per foot. Aquafraced through perfs. w/39,480 gals. water, and 30,000# sand. BD press. 1600#, avg. inj. rate 51 bbls. per min. at 1600#. Shut in press. 750# after 4 min. Shut in 4 hours, was on small vacuum when opened.

Reran tbg. to 4804' w/Sweet packer and holddown set at 4820'. Swabbed well 10 hours, well started blowing, produced at rate of 1004 MCF/day.

Ran bit and drilled Magnesium plug at 4969', drilled on to 5501'.

Set Baker Magnesium bridge plug at 3264'. Perf. 5-1/2" csg. from 3220-3244' w/6 Lane Wells bullet shots/ft. Aquafraced w/45,360 gals. water and 40,000# sand. BD press. 2400#, broke to 1100#. Avg. inj. rate 51 bbls/min. at 1200#. Shut in press. after 5 min. 400#. Produced at rate of 561 MCF/day.

Ran tubing to 3221' w/Sweet packer set at 3182' swabbed well in, produced at rate of 385 MCF/day.

Drilled bridge plug at 3264', broke loose and pushed to 5446', drilled out plug and on to 5558'.

Ran 5472' of 2" tbg. w/Sweet packer and holddown at 5481'. Packer set at 3275'. Swabbed well dry. Tested Pictured Cliffs formation through csg. and produced at rate of 349 MCF/day.

Set 5439' of 2" tbg. at 5448' w/packer set at 3272'. Well kicked off. Produced at rate of 1104 MCF/day from Pictured Cliffs formation.

Swabbed Mesa Verde section in. Kicked off, produced at rate of 2424 MCF/day.

Flowing gas well from perf. in Pictured Cliffs formation from 3220-3244', and perfs. in Mesa Verde section from 4864-4900', 4920-4940', 5402-5418', and 5424-5444', 5460-5484'.

Dual completion well.

Well shut in.

The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. The letter is addressed to the Senate and the House of Representatives, and is signed by Abraham Lincoln. The letter discusses the state of the Union at the time, the progress of the war, and the need for continued support from Congress. The letter is a formal document, and is written in a clear, concise, and dignified style. The letter is a significant historical document, and is a valuable source of information about the early years of the Civil War.

The second part of the document is a letter from the Secretary of the War Department to the Secretary of the Treasury, dated January 10, 1862. The letter is addressed to the Secretary of the Treasury, and is signed by Gideon Welles. The letter discusses the financial needs of the war, and the need for increased funding. The letter is a formal document, and is written in a clear, concise, and dignified style. The letter is a significant historical document, and is a valuable source of information about the financial aspects of the Civil War.