

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Denver  
Lease No. 054129  
Unit Asbury Creek Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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.....
NOTICE OF INTENTION TO ABANDON WELL.....		

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

September 14, 1949

Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. 14

SE/4 NE/4 - Sec. 14 9S 101W 6th P.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is Not determined 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)

Estimated Top of Formation: Madison Limestone - 6000'

Casing: Approx.: 800' - 10-3/4", 40.5#, J-55, seamless casing, cemented to surface  
6000' - 5-1/2", 15.5#, J-55, seamless casing, cemented with  
300 sacks

Approximate Total Depth: 6000'

APPROVED SUBJECT TO CONDITIONS SHOWN  
ON REVERSE

M. A. Frazer 9/28/49  
DISTRICT ENGINEER DATE

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

Company Amerada Petroleum Corporation

Address Box 2040

Tulsa 2, Oklahoma

By W. L. Ricketts

Title General Superintendent

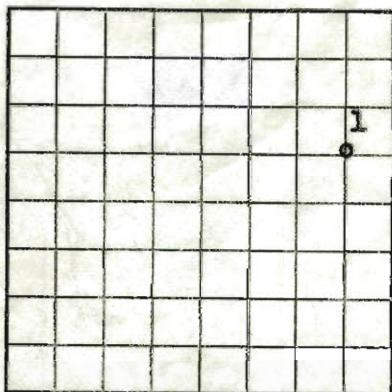


CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of the U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form, and two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator or completion of the well, whichever is earlier.
6. The District Engineer, G. G. FRAZIER 164 NEW CUSTOM HOUSE  
DENVER 2, COLORADO, shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.



Form 9-330

Get Bureau No. 42-R355.1.  
Approval expires 11-30-49.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Denver  
 SERIAL NUMBER #054129  
 LEASE OR PERMIT TO PROSPECT Asbury Creek

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY



## LOG OF OIL OR GAS WELL

Company Amerada Petroleum Corporation Address Box 2040, Tulsa 2, Oklahoma  
 Lessor or Tract Asbury Creek Unit Lease Field Asbury Creek Unit State Colorado  
 Well No. 1 Sec. 14 T. 9S R. 101W Meridian 6th.P. Area Mesa  
 Location 1980 ft. N. of N Line and 660 ft. E. of E Line of Sect. #14 Elevation 5184' (RB)  
(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 W. J. StewartDate December 19, 1949Title Dist. Supt.

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

Commenced drilling October 14, 1949 Finished drilling December 13, 1949

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2836' to 2867' G No. 4, from 2915' to 2933' G  
 No. 2, from 2915' to 2933' G No. 5, from 2915' to 2933' G  
 No. 3, from 2915' to 2933' G No. 6, from 2915' to 2933' G  
**IMPORTANT WATER SANDS**  
 No. 1, from 2915' to 2936' (Salt) No. 3, from 2915' to 2936' (Salt)  
 No. 2, from 3504' to 3520' (Salt) No. 4, from 3504' to 3520' (Salt)

## 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"	45.5	8-RT	Smls	815'	Float				
5-1/2"	19.5	8-RT	Smls	2836'	Grice				Set on top of pay
HISTORY OF OIL OR GAS WELL									

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	815'	350	Halliburton		
5-1/2"	2836'	300	Halliburton		

MARK



FOLD

Packer **PLUGS AND ADAPTERS**  
 Material **American GLS** **2" Up x 5 1/2"** Depth set **2688'**  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from **0'** feet to **4223'** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

**December 19**, 19**49** Put to producing **December 13**, 19**49**

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 **1,999,000** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

**T. E. Jackson**, Driller **E. F. Lain**, Driller  
**Harvey Duer**, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3205'	0'	689'	Shale
3205'	689'	133'	Shale & Lime Shells
3205'	822'	2'	Shale
3205'	824'	82'	Shale & Lime Shells (Core #1)
3205'	906'	179'	Shale
3205'	1085'	139'	Shale & Shells
3205'	1224'	645'	Shale
3205'	1869'	42'	Sand & Shale
3205'	1911'	633'	Shale
3205'	2544'	31'	Sand & Shale
3205'	2575'	61'	Shale
3205'	2636'	5'	Sandy Black Shale (Core #1)
3205'	2641'	59'	Shale (Core #3)
3205'	2700'	24'	Sand & Shale
3205'	2724'	26'	Sand
3205'	2750'	5'	Quartz Sand (Core #2)
3205'	2755'	31'	Sand
3205'	2786'	41'	Sand & Shale
3205'	2827'	40'	Sand
3205'	2867'	6'	Sand & Shale
3205'	2873'	33'	Shale
3205'	2906'	9'	Sand & Shale
3205'	2915'	19'	Sand
3205'	2934'	2'	Shale
3205'	2936'	7'	Sand & Shale
3205'	2943'	7'	Sand & Lime
3205'	2950'		

(OVER)

16-43004-2

FORMATION RECORD—Continue



# FORMATION RECORD—Continue..

FROM	TO	TOTAL FEET	FORMATION
2950'	2970'	20'	Sand & Shale
2970'	3000'	30'	Lime & Shale
3000'	3014'	14'	Shale
3014'	3051'	37'	Sand & Shale
3051'	3066'	15'	Shale
3066'	3088'	22'	Dolomite & Sand
3088'	3109'	21'	Sand & Shale
3109'	3130'	21'	Sandy Shale
3130'	3147'	17'	Sand & Shale
3147'	3194'	47'	Shale
3194'	3216'	22'	Sand
3216'	3221'	5'	Sand (Core #3)
3221'	3231'	10'	Sand (Core #4)
3231'	3249'	18'	Sand
3249'	3290'	41'	Sand & Shale
3290'	3311'	21'	Sand
3311'	3417'	106'	Shale & Sand
3417'	3440'	23'	Sand & Shale W/Lime Breaks
3440'	3465'	25'	Shale & Lime
3465'	3466'	1'	Sand & Shale
3466'	3476'	10'	Red Sand & Shale (Core #5)
3476'	3486'	10'	Red Shale (Core #6)
3486'	3502'	16'	Shale
3502'	3572'	70'	Sand
3572'	3668'	96'	Sand & Shale
3668'	3720'	52'	Sand
3720'	3822'	102'	Sand & Shale
3822'	3922'	100'	Sand
3922'	3970'	48'	Sand & Shale
3970'	3994'	24'	Sand
3994'	4018'	24'	Shale
4018'	4046'	28'	Sand
4046'	4068'	22'	Sand & Lime
4068'	4086'	18'	Sand & Shale
4086'	4113'	27'	Sand
4113'	4129'	16'	Sand
4129'	4143'	14'	Granite Wash
4143'	4203'	60'	Quartz
4203'	4206'	3'	Metamorphosed Granite Wash (Core #7)
4206'	4223'	17'	Quartzite
4223'	2862'	85'	Total Depth
2862'			Cement Plug
LOGS USED			
SCHLUMBERGER TOPS			
Elevation: Ground		5171'	
Rotary Bushing		5184'	
Dakota		2717'	
First Gas Sand		2836' - 2867'	
Second Gas Sand		2915' - 2933'	
Morrison		2960'	
Entrada		3504'	
Chinle		3960'	
Base Chinle		4080'	
Granite Wash		4110'	
Pre-Cambrian Granite Gneiss		4193'	
Total Depth		4223'	



# MIDDING AND CEMENTING RECORD

## HISTORY OF OIL OR GAS WELL

16-43084-1

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.

Spudded 9-7/8" hole at 12 midnight, 10-14-49. Drilled and reamed to 824' and set 10-3/4" OD, 45.5# Casing at 815' and cemented with 350 sacks cement. Drilled ahead with 9-7/8" hole to 4223', total depth. Finished 9-7/8" hole 5:50PM, 12-2-49. Plugged back with 60 sacks from 2967' to 2879' and washed out to 2882'. Set 5 1/2" OD, 15.5# Casing at 2836' with 300 sacks cement. Drilled out cement 2755' - 2837'; open hole 2837' - 2882' and ran Baker Wall Scraper with 10" Blades from 2839' to 2869'. Ran 2-3/8" OD, EUE, 4.7# tubing with bottom of tubing at 2842' and American MCS Packer at 2688'. Swabbed well in. Released rig at 8:30PM, 12-13-49. Put bull plug in top of tubing gate and casing gate. Finished 12 noon, 12-14-49. Floored and fenced cellar, fenced pit. All tools off location 12 noon, 12-17-49.

(Denote gas pit)

## OIL OR GAS SANDS OR ZONES

Commenced drilling      October 14, 1949      Finished drilling      December 13, 1949

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

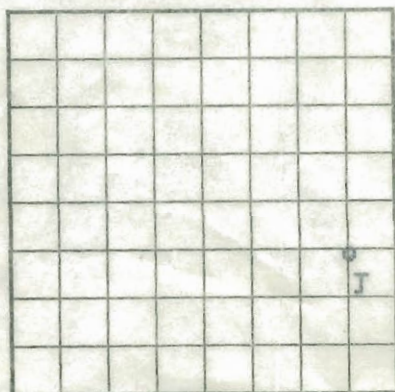
Date      December 13, 1949      Title      Drif. Surf.

so far as can be determined from all available records.

The information given hereafter is a complete and correct record of the well and all work done thereon

Location      1280 ft. {S.} of N. line and 660 ft. {W.} of E. line of Sect. #17      Elevation      2167' (KB)  
 Well No.      T      Sec.      14      T. 32      R. 101M      Meridian      65N. 15.      County      Yates      State      Texas  
 Name of tract      Varsity Creek Unit Lease      Field      Varsity Creek Unit      State      Colorado  
 Company      Amstar Petroleum Corporation      Address      Box 3010, Yates Co., Oklahoma

LOCATE WELL CORRECTLY



## LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

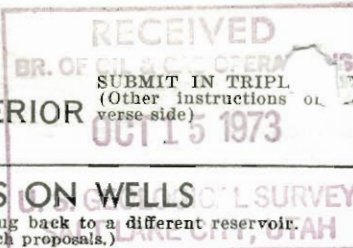
UNITED STATES



Varsity Creek  
 LEASE OR PERMIT TO PROSPECT  
 SERIAL NUMBER      4021730  
 U. S. LAND OFFICE      DENVER



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**14-08-0001-86-02-D-05439**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <b>Storage</b>		7. UNIT AGREEMENT NAME <b>Asbury Creek Storage</b>
2. NAME OF OPERATOR <b>Western Slope Gas Company</b>		8. FARM OR LEASE NAME <b>Federal</b>
3. ADDRESS OF OPERATOR <b>P. O. Box 840, Denver, Colorado 80201</b>		9. WELL NO. <b>1</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>CSE 1/2 NE 1/4</b>		10. FIELD AND POOL, OR WILDCAT <b>Asbury Creek</b>
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 14, T9S, R101W 6th P.M.</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5174 GR</b>		12. COUNTY OR PARISH <b>Mesa</b>
		13. STATE <b>Colo.</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <b>Recompletion</b> <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Preliminary work indicated holes in the casing. Therefore an inflatable packer will be run in order to isolate the annulus.

18. I hereby certify that the foregoing is true and correct

SIGNED <b>J. Valenta</b>	TITLE <b>Supv. of Gas Supply</b>	DATE <b>10-9-73</b>
(This space for Federal or State office use)		
APPROVED BY <b>Gerald R. Dames</b>	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

\*See Instructions on Reverse Side

ORIGINAL FORWARDED TO CASPER

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

847 - 485

will be run in order to isolate the annulus. Preliminary work indicated holes in the casing. Therefore an

THE SUPPLY OF GAS

APPROVED BY: *James P. Jones*  
CONDITIONS OF APPROVAL: IF ANY:

Original

3413



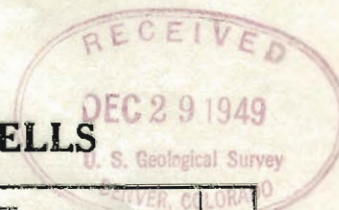
(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Field Office Denver  
Lease No. #054129  
Unit Asbury Creek



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	
NOTICE OF INTENTION TO ABANDON WELL	Report of Testing and Completing	X

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

December 19, 1949

Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. #14

SE 1/4 NE 1/4 of Sec. #14 9S 101W 6th. P.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

Rotary Bushing

The elevation of the ~~drill floor~~ above sea level is 5184 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)

2882' Drilled Out Depth. Tested 5 1/2" Casing with 1600# for 30 minutes and OK. Started drilling plug and cement. On 12-9-49 finished drilling plug and cement from 2755' to 2837'; open hole 2837' - 2882'. On 12-10-49 finished scraping hole with Baker Wall Scraper with 10" Blades from 2839' - 2869'. Ran total of 89 jts. of 2-3/8" OD, EUE, 4.7#, J-55, R-2, 8-RT, SS Tubing with American Type GLS Packer set at 2688' with 4 jts. tubing below packer with 1-4' perf. nipple on bottom at 2842'; 1-6' and 1-8' subs on top. Displaced mud out of tubing with 20 bbls. water and started swabbing 6AM, 12-12-49. Swabbed down to 2000' and well started flowing. Leak in tubing. Killed well with 11 bbls. mud, max. pressure 900#. Tightened tubing and swabbed well in again, 12-13-49. Took four hour test on 12-14-49 and at end of test gas volume 1,999,000 cu.ft. per day. Shut well in; tbg. 870#, csg. 0#. Put bull plug in tubing gate and casing gate and finished 12 noon, 12-14-49. Floored and fenced cellar, fenced pit. All tools off location at 12 noon, 12-17-49.

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

Company Amerada Petroleum Corporation

Address Box 1250, Casper, Wyoming

By H. H. Stewart

Title Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Denver  
Lease No. #054129  
Unit Asbury Creek



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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Plugging Back and</u>
	<u>Setting Casing</u> <span style="float: right;">X</span>

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

December 6, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14

SE 1/4 NE 1/4 of Sec. #14 9S 101W 6th/P  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

The elevation of the Rotary Bush deries floor above sea level is 5184 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)

4223' Total Depth, 2882' Drilled Out Depth. Plugged back with 60 sacks cement from 2967' - 2859', finished 12 midnight 12-4-49. On 12-5-49 checked top of plug at 2879' and washed out to 2882'. Good, firm cement at 2882'. Waited for pipe and then ran 72 joints of 5 1/2" OD, 15.5#, J-55, R-3, 8-RT, SS Casing New with Baker Guide Shoe, Baker Float Collar at 2754' and Baker Centralizer at 2818'. Casing set at 2836'. Cement with 300 sx regular cement and plug pumped down at 8:30AM, 12-6-49. Final Pressure 700#. Cement weight 14#.

Approved 12/13/49

H. G. Frazer

District Engineer

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

Company Amerada Petroleum Corporation

Address Box 1250, Casper, Wyoming

By H. G. Stewart

Title Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Denver  
Lease No. #054,129  
Unit Asbury Creek

## SUNDRY NOTICES AND REPORTS ON WELLS

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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 <del>PLUG BACK</del> <sup>Set</sup> <del>WATER</del> CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Coring</u>	X
<u>Intention to Plug Back</u>		X

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

December 3, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14

<u>SE 1/4 NE 1/4 of Sec. #14</u> (1/4 Sec. and Sec. No.)	<u>9S</u> (Twp.)	<u>101W</u> (Range)	<u>6th. P.</u> (Meridian)
<u>Asbury Creek Unit Area</u> (Field)	<u>Mesa</u> (County or Subdivision)	<u>Colorado</u> (State or Territory)	

The elevation of the ~~surface~~ <sup>Rotary Bush</sup> above sea level is 5184 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)

On 12-2-49 cut Core #7 with 7 1/2" Hughes J Head 4203' - ~~4206'~~ 4206', 3', recovered 1' of metamorphosed granite wash with few very thin short red clay partings; no show. Time 3 hours 48 minutes. Reamed out core hole and drilled ahead to 4223' Total Depth, Granite. Finished 5:50PM, 12-2-49. Ran Schlumberger Survey, their TD 4222'. Schlumberger Tops: Dakota 2717'; First Gas Sand 2836' - 2867'; Second Gas Sand 2915' - 2933'; Morrison 2960'; Entrada 3504'; Chinle 3960'; Base Chinle 4080'; Granite Wash 4110'; Pre-Cambrian Granite Gneiss 4193'.

We intend to plug well back with 60 sacks cement from 2967' - 2867' and then set 5 1/2" OD, 15.5# Casing at approximately 2836' with 300 sacks cement.

Approved 12/13/49H. T. Stewart

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

Company Amerada Petroleum CorporationAddress Box 1250, Casper, WyomingBy H. T. StewartTitle Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Denver  
Lease No. #054129  
Unit Asbury Creek

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	
NOTICE OF INTENTION TO ABANDON WELL	Report of Testing	X

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

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14  
xxx xxx

SE 1/4 NE 1/4 Sec. and Sec. No. #14 98 (Swp.) 101W (Meridian) 6th. P.  
Asbury Creek Unit Area Mesa (County or Subdivision) Colorado (State or Territory)

The elevation of the Rotary Bush above sea level is 5184 ft.  
xxxxxxxxxx

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)

4113' Total Depth, Sand. Tried to set packer for Drill Stem Test at 4094' and then 4083'. Packer would not hold. Conditioned hole and then ran 1 hour DST #7 at 4113' TD, Howco Packer at 4102', 1/2" bottom choke. Tool open 12:10PM, 11-29-49 with very, very weak blow air immediately that lasted 30 minutes and then died. Tool closed 1:10PM. Recovered 10' drilling mud in 4 1/2" drill pipe. Hydro. press. 2090#; flow press. 0#; 15 min. build up press. 0#. Resumed drilling

Approved 12/5/49

H. A. Frazier  
District Engineer

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

Company Amerada Petroleum Corporation  
Address Box 1250, Casper, Wyoming

By H. P. Stewart  
Title Dist. Supt.



COPY RETAINED DENVER

File: *Asbury*  
*054129*  
*Well #1 Unit.*

# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279  
Casper, Wyoming

## CORE ANALYSIS REPORT

Field Asbury Creek, Colorado Well No. #1 Unit  
Operator Amerada Petroleum Corporation Location SW 1/4 NW 14-98-101W  
Formation \_\_\_\_\_ Depths 3322-3328 Lab. No. 3548  
Analyzed by Chemical & Geological Laboratories Date November 18, 1949

NOV 28 1949  
U. S. Geological Survey  
C. S. COLOMBO

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	OIL SATURATION		WATER SATURATION		
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET	
NP	1	3322-23	11.3	0.54	18.3	161	45.0	395
NP	2	3323-24	14.3	2.13	16.9	189	35.0	388
NP	3	3324-25	12.6	1.20	1.2	12	34.3	335
SHF	4	3327-28	11.0	4.65	1.4	12	60.2	514

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

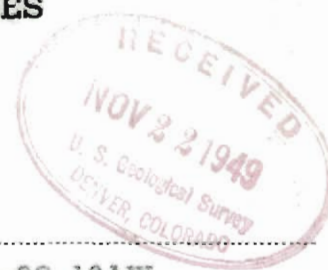
DEPTH, FEET FROM	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION



# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279  
Casper, Wyoming

## WATER ANALYSIS REPORT



*Denver*  
*054129*

Field Asbury Creek, Colorado Well No. #1 Unit  
Operator Amerada Petroleum Corporation Location SE NE 14-9S-101W  
Sampled by Wheeler Date \_\_\_\_\_  
Formation Morrison Depths 2914-2936 How sampled DST  
Other pertinent data \_\_\_\_\_

Analyzed by C&GL Date 11-15-49 Lab. No. 3525

### PARTS PER MILLION

NA & K	CA	Mg	FE	SO <sub>4</sub>	CL	CO <sub>3</sub>	HCO <sub>3</sub>	OH	H <sub>2</sub> S
19,963	1073	260		237	32,068		2075		

### MILLIGRAM EQUIVALENTS

868.37	53.54	21.37		4.93	904.32		34.03		
--------	-------	-------	--	------	--------	--	-------	--	--

### MILLIGRAM EQUIVALENTS IN PERCENT

46.03	2.84	1.13		0.26	47.93		1.81		
-------	------	------	--	------	-------	--	------	--	--

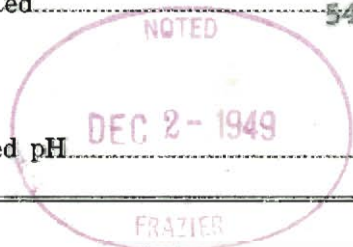
### Total Solids in Parts per Million

By evaporation.....55347  
After ignition.....52575  
Calculated.....54623

### Properties of Reaction in Percent

Primary salinity.....92.06  
Secondary salinity.....4.32  
Primary alkalinity.....0.00  
Secondary alkalinity.....3.62  
Chloride salinity.....99.46  
Sulfate salinity.....0.54

Observed pH 7.1



Remarks and conclusions Formation water, probably Morrison.





(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Denver  
Lease No. #054129  
Unit Asbury Creek



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.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Coring and Testing</u>	<u>X</u>

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

November 22, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14

SE 1/4 NE 1/4 of Sec. #14 9S 101W 6th. P.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

The elevation of the Rotary Bush drill hole above sea level is 5184' ft.

DETAILS OF WORK

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

On 11-18-49 cut Core #5 with 7 1/2" Hughes Type J Head, 3466' - 3476', rec. 10'. Description: 9 1/2' varying red sand & shale. 6" white, very fine grained, limy sand with thin patches green shale. No shows in core. Time 4 hrs. 36 minutes. Started core #6. On 11-19-49 finished Core #6 with 7" Hughes Type J Head 3476' - 3486', recovered 10' of red shale. No shows. Time 4 hrs. 10 minutes. Reamed out core hole and resumed drlg. On 11-20-49 ran DST #6 at 3520' TD, Howco Packer at 3504', 1/2" bottom choke. Tool open 12:45PM with fair blow air immediately that lasted 30 mintes; then very weak blow until tool closed at 2:45PM. Recovered 120' salt water and 60' drilling mud in 4 1/2" drill pipe. Howco pressures: hydro 1800#; flow 0#; 15 min. build up 200#. Resumed drilling.

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

Company Amerada Petroleum Corp.  
Address B ox 1250, Casper, Wyoming

Approved 11/28/49  
J. A. Frazier  
District Engineer

By W. J. Stewart  
Title Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Denver  
Lease No. #054129  
Unit Asbury Creek

## 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.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Coring and Testing</u>	<u>X</u>

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

November 22, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14

<u>SE 1/4 NE 1/4 of Sec. #14</u> (1/4 Sec. and Sec. No.)	<u>9S</u> (Twp.)	<u>101W</u> (Range)	<u>6th. P.</u> (Meridian)
<u>Asbury Creek Unit Area</u> (Field)	<u>Mesa</u> (County or Subdivision)	<u>Colorado</u> (State or Territory)	

The elevation of the Rotary Bush ~~drill floor~~ above sea level is 5184' 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)

On 11-18-49 cut Core #5 with 7 1/2" Hughes Type J Head, 3466' - 3476', rec. 10'. Description: 9 1/2' varying red sand & shale. 6" white, very fine grained, limy sand with thin patches green shale. No shows in core. Time 4 hrs. 36 minutes. Started core #6. On 11-19-49 finished Core #6 with 7" Hughes Type J Head 3476' - 3486', recovered 10' of red shale. No shows. Time 4 hrs. 10 minutes. Reamed out core hole and resumed drlg. On 11-20-49 ran DST #6 at 3520' TD, Howco Packer at 3504', 1/2" bottom choke. Tool open 12:45PM with fair blow air immediately that lasted 30 mintes; then very weak blow until tool closed at 2:45PM. Recovered 120' salt water and 60' drilling mud in 4 1/2" drill pipe. Howco pressures: hydro 1800#; flow 0#; 15 min. build up 200#. Resumed drilling.

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

Company Amerada Petroleum Corp.Address B ox 1250, Casper, WyomingApproved 11/28/49

District Engineer

By W. J. StewartTitle Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Denver  
Lease No. #054129  
Unit Asbury Creek

SHEET #1

## 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	
NOTICE OF INTENTION TO ABANDON WELL	Report of Coring and Testing	X

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

November 17, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Sec. #14 9S 101W 6th. p.m.  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

Rotary Bush.

The elevation of the ~~surface~~ above sea level is 5184 ft.

## DETAILS OF WORK

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

Core #3 with Hughes Type J Head, 3216' - 3221', recovered 5'. Description: 4½' medium grained, quartzitic sand, tight, showing tight, vertical fractures that are filled and indicating very thin open horizontal fractures with medium penetration with trace light stain and asphaltic residue along fractured surface. 6" coarse sand conglomerate with horizontal fractures and trace asphaltic residue with good fluorescence along fractured surface; good oilstain along fractured surface. Time 1 hr. 38 minutes. Ran DST #4 at 3221' TD, Howco Packer at 3207', 1/2" bottom choke. Tool open 5:15 PM, 11-13-49 with air immediately; very, very light blow until tool closed at 6:45 PM. Recovered 30' drilling mud in 4½" drill pipe. Hydro. press. 1600#; flow 0#; 15 min. build up 12 0#. Cut Core #4 with Hughes Type J Head 3221' - 3231', recovered 10'. Description: 9½' very coarse conglomeratic sand, trace good oil stain, patchy bleeding in core; slight odor on heating; horizontal fractures and some intergrading porosity. 6" hard, tight sand; no shows. Time 5 hrs. 8 min. (Continued)

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

Company Amerada Petroleum CorporationAddress Box 1250, Casper, WyomingApproved 11/28/49G. A. Ferguson  
District EngineerBy H. J. StewartTitle Dist. Supt.



(SUBMIT IN TRIPLICATE)

Land Office Denver  
Lease No. #054129  
Unit Asbury CreekUNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSHEET #2

## 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	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Stem Coring &amp; Testing</u>	<u>X</u>

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

November 17, 1949Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. #14SE 1/4 NE 1/4 of Sec. #14 9S 101W 6th. P.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)Asbury Creek Unit Area Wasa Colorado  
(Field) (County or Subdivision) (State or Territory)The elevation of the Rotary Bush ~~drill hole~~ above sea level is 5184 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)

(Continued)

Ran DST #5 at 3231' TD, Howco Packer at 3217', 1/2" bottom choke. Tool open 8:25AM on 11-14-49 with very weak blow air immediately that lasted for 3 minutes and then died. Letset 20 minutes. Closed and reopened tool with no results. Well stayed dead until tool closed at 9:55AM. Recovered 20' drilling mud in 4 1/2" drill pipe. Hydro. press. 1625#; flow 0#; 15 min. build up press. 0#. Reamed out core hole and resumed drilling.

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

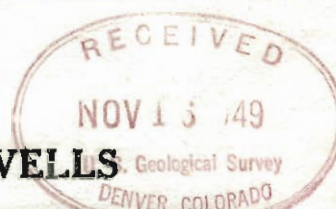
Company Amerada Petroleum CorporationAddress Box 1250, Casper, WyomingBy J. G. StewartTitle Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYDenver  
Land Office  
Lease No. #054129  
Unit Asbury Creek

SHEET #1



## 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	
NOTICE OF INTENTION TO ABANDON WELL	Report of Coring and Testing	X

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

November 11, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14

SE 1/4 NE 1/4 of Sec. #14  
(1/4 Sec. and Sec. No.)

9S

(Twp.)

101W

(Range)

6th. P.

(Meridian)

Asbury Creek Unit Area

(Field)

Mesa

(County or Subdivision)

Colorado

(State or Territory)

Rotary Bushing

The elevation of the ~~surface~~ above sea level is 5184 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)

On 10-31-49 cut Core #1 2636' - 2642', recovered 4 1/2' of very fine, sandy, black, highly carbonaceous shale; barren. Time 2 hrs. 58 minutes. Resumed drilling. On 11-2-49 cut Core #2 2750' - 2755', recovered 5' of quartz sand, hard, clay bonded, dark, asphaltic residue; trace of light yellow stain; no odor; no live oil stain; no porosity. Time 1 hr. 21 minutes. On 11-4-49 ran Drill Stem Test #1 at 2873' TD, Howco Packer at 2833', 1/2" bottom choke. Tool open 7:10 PM with gas to surface in 3 minutes. Gas settled at rate of 2,908,000 cu. ft. per day. Gas is sweet and will burn. Tool closed at 8:20 PM. Recovered 120' gas cut mud in 4 1/2" drill pipe. Howco. pressures: Hydro. 1480#; initial flow 515#; final flow 620#; 15 min. build up 1005#. On 11-5-49 tried to take Drill Stem Test #2 at 2873' TD with Howco Packer at 2721' but the packer would not hold. Tried at 2725' but still the packer would not hold. Resumed drilling. On 11-7-49 ran Drill Stem Test #3 at 2936' TD Howco Packer at 2914', 1/2" bottom choke. Tool open 2:45 PM with air immediately; gas to

(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 Amerada Petroleum Corporation

Address Box 1250, Casper, Wyoming

Approved 11/28/49

A. G. Frazier  
District Engineer

By J. H. Stewart

Title Dist. Supt.



(SUBMIT IN TRIPLICATE)

Land Office Denver  
Lease No. #054129  
Unit Asbury CreekSHEET #2UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Coring and Testing</u>	<u>X</u>

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

November 11, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14SE 1 NE 1 of Sec. #14 9S 101W 6th. P.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)The elevation of the Rotary Bushing ~~drill floor~~ above sea level is 5184 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)

(Cont'd)

surface in 20 minutes. Air and then gas for first 30 minutes at steady blow and then by heads. At 3:45PM gas was 31,500 to 42,600 cu.ft. per day; at 4:05PM was 28,100 to 44,000 cu.ft. per day. Tool closed at 4:15PM. Recovered 1800' salty water and 30' of drilling mud in 4 1/2" drill pipe. Pressures: Amerada Bomb: Hydro. 1585#; initial flow 375#; final flow 900#; 15 min. build up 970#. Howco Bomb: Hydro. 1500#; initial flow 480#; final flow 790#; 15 min. build up 830#. Resumed drilling.

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

Company Amerada Petroleum CorporationAddress Box 1250, Caspar, WyomingBy H. J. StewartTitle Dist. Supt.



# CHEMICAL & GEOLOGICAL LABORATORIES



CHEMISTS

GEOLOGISTS

ENGINEERS

P. O. BOX 279

CASPER, WYOMING

November 8, 1949

*Danner*  
054129

## GAS VOLUME MEASUREMENT



Company Amerada Petroleum Corporation

Lease and Well No. Asbury Creek Unit No. 1

Date - 11-7-49

Field - (Wildcat Test) Asbury Creek, Colorado

Location - Sec. 14-98-101W

County - Mesa

State - Colorado

Formation - Morrison

T.D. - 2936'

Elevation - 5184

Special Data - 4-1/2" Drill Stem Test - Packer at 2914 with 22 ft. of anchor.

Very light blow -- all measurements through orifice well tester, with 1" orifice. As test continued, pipe loaded with water and gas volume kept decreasing and heading.

### Gas Data:

Gravity - 0.664

Temperature - 65° F.

Atmospheric Pressure - 12.3 psi

<u>TIME</u>	<u>ELAPSED TIME</u>	<u>ORIFICE SIZE</u>	<u>MANOMETER READING</u>	<u>CORRECTED VOLUME</u> <u>Ref. Daily</u>	<u>REMARKS</u>
2:45 PM					Open Tool
3:05 PM	20 mins.	1"	4.5"	47	
3:12 PM	27 "	1"	3.6"	42	
3:45 PM	60 "	1"	1.5" to 2.7"	27 to 37	
4:10 PM	85 "	1"	1.2" to 2.9"	24 to 38	
4:15 PM					Closed Tool

NOTED

DEC 2 - 1949

FRAZIER



# CHEMICAL & GEOLOGICAL LABORATORIES



CHEMISTS

GEOLOGISTS

ENGINEERS

P. O. BOX 279

CASPER, WYOMING

November 7, 1949

*Denver*  
*054129*

## Gas Volume Measurement



Company - Amerada Petroleum Corporation

Lease and Well No. - Asbury Creek Unit No. 1

Field - (Wildcat Test) Asbury Creek, Colorado

Location - Sec. 14-95-101W

County - Mesa

State - Colorado

Formation - Lakota

TD - 2873

Elevation - 5184

Special Data - 4½ in. Drill Stem Test - Packer at 2833 with 40 ft. anchor

Well flowing through 2 in. blow off line with Tee connection to 3 in. Vent.  
All measurements with pitot tube.

Gas Data: Gravity - 0.72  
Temp. - 60° F.  
Atmos. Pressure - 12.3 psi

<u>Time</u>	<u>Elapsed Time</u>	<u>Manometer Reading</u>	<u>Volume Mcf. daily</u>	<u>Corrected Volume Mcf. daily</u>	<u>Remarks</u>
7:10 p.m.					Open Tool
7:20 p.m.	10	3.0" mercury	1917	1601	
7:25 p.m.	15	4.7" mercury	2400	2005	
7:52 p.m.	42	7.0" mercury	2929	2447	
8:02 p.m.	52	6.9" mercury	2908	2429	
8:09 p.m.	59	6.9" mercury	2908	2429	
8:18 p.m.	68	6.9" mercury	2908	2429	Closed Tool
8:20 p.m.					





(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Denver  
Lease No. #054129  
Unit Asbury Creek

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF <del>WELL</del> SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF <del>WELL</del> CLOSING	X
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	
NOTICE OF INTENTION TO ABANDON WELL			

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

October 24, 1949

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. #14  
SE 1/4 NE 1/4 of Sec. #14 9S 101W 6th. P.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Asbury Creek Unit Area Mesa Colorado  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is Not ft. Determined

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)

824' Total Depth, Shale. Spudded 9-7/8" hole at 12 midnight, 10-14-49 and drilled to 824'. Ran Schlumberger Survey; their TD 827'. Reamed out hole to 13-3/4" to 818' and finished 11AM, 10-20-49. Ran 19 jts. of 10-3/4" OD, 45.5#, J-55, R-3, 8-RT, Smls Casing New and Baker Float Shoe. Casing set at 815'. Cemented with 350 sacks regular cement and plug pumped down at 8:00PM, 10-20-49. Cement circulated; weight 16#. WOC and nipples up until 10-23-49, and then tested 10-3/4" casing with 1200# for 1 1/2 hours and OK. Drilled out plug and cement and started drilling 9-7/8" hole at 4:30PM, 10-23-49.

Approved 10/31/49  
J. J. Ferguson  
District Engineer

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

Company Amerada Petroleum Corporation

Address Box 1250, Casper, Wyoming

By W. J. Stewart

Title Dist. Supt.