

U. S. LAND OFFICE Salce, New MexicoSERIAL NUMBER Cont. #149-Tr-#246LEASE OR PERMIT TO PROSPECT J. Apache "F"UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Amesada Petroleum Corporation Address Box 1469, Durango, Colorado
Lessor or Tract Federal Gov't. (Apache) Field Basin Dakota State New Mexico
Well No. 10 Sec. 16 T. 25N R. 5W Meridian 13PM County de Arriba
Location 1190 ft. N of N Line and 1980 ft. E of N Line of 16 Elevation 6714 (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 L.A. Pettyjohn Title District Field ClerkDate February 27, 1963

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

Commenced drilling 1/26/63, 19 Finished drilling 2/13/1963OIL OR GAS SANDS OR ZONES Completed 2/20/63
(Denote gas by G)

No. 1, from 2868 to 2951 P-C No. 4, from 7071 to 7237 Graneros
No. 2, from 3724 to 3865 Chacra No. 5, from 7237 to 7327 Up. Dakota
No. 3, from 3911 to 3911 & above sands protected No. 6, from Producing F/Graneros & Up. Dak.
W/Cement

IMPORTANT WATER SANDS

No. 1, from None encountered 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—	
<u>9-5/8"</u>	<u>25.44</u>	<u>5.0</u>	<u>Ames</u>	<u>200'</u>	<u>TF</u>	<u>None - Cement circulated.</u>			
<u>3-1/2"</u>	<u>9.25</u>	<u>10.75</u>	<u>Ames</u>	<u>7399'</u>	<u>Howe</u>	<u>None</u>			
<u>3-1/2" D.V. Tool in string & cemented with 300 sacks cement on second stage.</u>									
<u>Top of cement outside of 3/4" Csg. Lower Stage & 6175' & Second Stage & 2795'.</u>									
<u>After Drilling out D.V. Tool at 3911' Tested 3/4" Casing w/4500' 7/1/2 Hr. OK.</u>									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>215'</u>	<u>150</u>	<u>Halliburton - Cement circulated.</u>		
<u>3-1/2"</u>	<u>7399'</u>	<u>375</u>	<u>Halliburton</u>	<u>9.5#</u>	
<u>D. V. Tool cemented with 300 sacks Cement on second stage.</u>					

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
<u>None - See back for perforating and completion record.</u>						

TOOLS USED

Rotary tools were used from feet to feet, and from 0' feet to 7428' feet TD
Cable tools were used from None feet to feet, and from feet to feet

DATES

Gas well, 3Hr. Test 2/20/63 19 Put to producing waiting on Sales Connection 19
The production for the first 24 hours was barrels of fluid 2/20/63 was oil; %
emulsion; % water; and % sediment. Gravity, °Bé.
If gas well, cu. ft. per 3911 hours 4,257 Gallons gasoline per 1,000 cu. ft. of gas W/Show List.
Rock pressure, lbs. per sq. in. 750#

EMPLOYEES

R. Hutzenbiller, Driller C. Wilson, Driller
Glen Sanford, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>FORMATION RECORD</u>			
<u>0' - 7428' Sand and Shale</u>			
<u>NO CORES OR DRILL STEM TESTS TAKEN</u>			
<u>FINAL LANE-WELLS TOPS</u>			
<u>Kirtland-Fruitland</u>		<u>2179' - 4237'</u>	
<u>Pictured Cliffs</u>		<u>2868' - 3848'</u>	
<u>Lewis</u>		<u>2951' - 3765'</u>	
<u>La Ventana "A" Chacra</u>		<u>3724' - 2992'</u>	
<u>Babe La Verna "A"</u>		<u>3865' - 2851'</u>	
<u>Allison-Cleary (?)</u>		<u>4513' - 2203'</u>	
<u>Point Lookout</u>		<u>5072' - 1644'</u>	
<u>Rancos</u>		<u>5262' - 1454'</u>	
<u>Upper Gallup</u>		<u>6231' - 485'</u>	
<u>Lower Gallup</u>		<u>6460' - 256'</u>	
<u>Sanastee</u>		<u>6701' - 15'</u>	
<u>Lower Rancos</u>		<u>6808' - 92'</u>	
<u>Greenhorn</u>		<u>7008' - 292'</u>	
<u>Graneros</u>		<u>7071' - 355'</u>	
<u>Upper Dakota</u>		<u>7237' - 521'</u>	
<u>Lower Dakota</u>		<u>7327' - 611'</u>	

FORMATION RECORD-Continued

FROM-	TO-	TOTAL FEET	FORMATION
-13-63 - 7428' total depth:			Set 3 1/2" OD 9.25, 10MT, .955, H2, non-up casing at 7399', w/Howco float shoe and Howco float collar at 7337', w/Photo Scratchers & centralizers from 7335' to 7035', and Halliburton B. V. Tool at 3911', cemented first stage in Dakota zone with 275 sacks 50/50 Pozmix, w/12 1/2% Cilsonte per sack, mixed 4% gel and 3/4% CFS2 and 100 sack 50/50 Pozmix, no gel w/3/4% CFS2, max. 1.0 2000#, pumped plug down - 11:15 AM, 2/13/63, cemented by Halliburton. Cemented second stage by Halliburton w/300 sacks Class "M" cement, mixed 6% gel, third B. V. Tool at 3911' (to cover Chacra - pictured cliffs zones) max. Press. 1000#, pump plug to 3911'.
2-19 and 2-20-63: 7428' TD: Drilled out B. V. Tool at 3911', (upper stage) and drilled cement out of 3 1/2" casing to 7316'. Halliburton test 3 1/2" casing w/4500# Press. 1/2 Hr. held OK. Performed by Lane-Wells from (7103'-30') (7240'-45') (7250'-56') and 7284'-99' w/2 1/2" I-Shot per ft. Halliburton Sand-Water Pressure thru above perforations w/64,000# sand and 68,000 gals. water, max. press. 4500#, avg. inj. rate 22.5 Bbls/hr-in. job completed 11:30 AM, 2/20/63.			Snubbed well 5 Hr. and started flowing 5:00 PM, 2/20/63, casing press. from zero to 750#, at end of 3-Hr. test gas vol. 4,257 MCF, w/show of clear effluvia, made est. 50 Bbls. Fracture water and turned to spray. Well completed 5:00 PM, 2/20/63.

HISTORY OF OIL OR GAS WELL

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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.