OE 5 1961

Form approved. Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079367-A
LEASE OR PERMIT TO PROSPECT

16-48094-5

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD  Size Number sacks of cement Method used Mud gravity Amount of mud used  PLUGS AND ADAPTERS  Heaving plug—Material Length Depth set  Size SHOOTING RECORD  Size Shell used Explosive used Quantity Date Depth shot Depth eleaned out  Size Shell used Explosive used Quantity Date Depth shot Depth eleaned out  Size Frac Pictured Cliffs w/34, 00 gal water containing 1% calcium chloride plus 90-96; 2# FR-2/1000 gal, and 30,000# sand. Flush w/900 gal water. EDP 3500#, max 1							Box 990, Fa		
The information given berwith is a complete and correct record of the well and all work done thereon of are as enab determined from all available records.  Signed  The commerce of the well and all work done thereon of are as enab determined from all available records.  Signed  The commerce of this page is for the exadition of the well at above date.  Commenced drilling 10-11- 1951. Finished drilling 10-27- 19.52.  OLI OR GAS SANDS OR ZONES  (Denote page by 0)  No. 1, from 1105 to 3289 (2) No. 4, from to No. 5, from to No. 5, from to No. 5, from to No. 5, from to No. 3, from to No. 3, from to No. 4, from to No. 3, from to No. 4, from to No. 3, from to No. 4, from to No. 4, from to No. 5, from No. 6, from to No. 5, from to No. 6, fro									
The information given betweith is a complete and correct record of the well and all work done thereon of ar as can be determined from all available records.  Signed  Date December 1, 1961. Title Persoleum Engineer  The summary on this page is for the condition of the well at above date.  Donmenced drilling 10-11- 1961. Title Persoleum Engineer  The summary on this page is for the condition of the well at above date.  Donmenced drilling 10-11- 1962. This is drilling 10-17- 19.52.  OIL OR GAS SANDS OR ZONES  [Denote park by 0]  No. 1, from 10 No. 5, from 10 No. 4, from 10 No. 5, from 10 No. 5, from 10 No. 4, from 10 No. 5, from 10 No. 5, from 10 No. 4, from 10 No. 5, from 10 No. 5, from 10 No. 5, from 10 No. 4, from 10 No. 5, from 10								-	
of a see as be determined from all available recents.  Signed  Date December 1, 1961. Title Petroleum Engineer.  The enumenced drilling 10-11 1961. Finished drilling 10-17 19.51.  OIL OR GAS SANDS OR ZONES  (Denois gas by 60 No. 5, from to To To To To To No. 5, from to						,			
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MUDDING AND CEMENTING RECORD    Multiple   Moderant   Method used   Moderant   Amount of muld used	casing pe	reignt Tr	ireads per inch	Make	Amount	Kind of shoe	Cut and pulled from		To Purpose
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MUDDING AND CEMENTING RECORD    Stre	<del>7/9</del>	914		777	5-17				r .
MUDDING AND CEMENTING RECORD    Manual Control   Manual C							y	40	
Where set					:				
The production for the first 24 hours was barrels of fluid of which was oil;% water; and% sediment.  For production;% water; and% sediment.  Figs well, cu. ft. per 24 hours 1,043,000 Gallons gasoline per 1,000 cu. ft. of gas  From Total Feet			1	MUDI	DING AND	CEMENT	NG RECORD		
PLUGS AND ADAPTERS   Length   Depth set		Where set	Numb	er sacks of ce	ement	Method used	Mud gravity	_ Ar	nount of mud used
PLUGS AND ADAPTERS  Heaving plug—Material Length Depth set  Size  SHOOTING RECORD  SHOOTING RECORD  FROM: Shout used from Size of Particles of Par	5/8	104		140		circulat	æði		
Heaving plug—Material Length Depth set  Adapters—Material Size  SHOOTING RECORD  Size Shotlused Explostre used Quantity Date Depth shot Depth cleaned out  68-74; Frac Pictured Cliffs w/34, 700 gal water containing 15 calcium chloride plus go-95; 2f Fr-2/1000 gal, and 30,000% sand. Flush w/900 gal water. EDP 3500%, max 1 06-12; 4000%, tr pr 3200-3300-3600%. IR 16.5 SPM. Propped 2 sets of 74 balls—3 states tools were used from containing 15 calcium chloride plus go-96; 2f Fr-2/1000 gal, and 30,000% sand. Flush w/900 gal water. EDP 3500%, max 1 06-12; 4000%, tr pr 3200-3300-3600%. IR 16.5 SPM. Propped 2 sets of 74 balls—3 states tools were used from feet to get and from feet to feet to get, and from feet to feet to get, and from feet to get and from feet to feet to get and from get and get an		3265		190		single s	tage		
25   78   72   700   7	Size	Shell us	ed	Explosive u		<del></del>		t	Depth cleaned out
25   78   72   700   7		_							
### 100   10		Frac P	ictured	CLIFTS	w/34,700	ma unite			um chioride plus
Rotary tools were used from	. <b>90-</b> 95:	2# FR-	2/1000	gal, and	30,000#	gond Mi	ich w/OW ga!	mter.	BDP 3500#, max
Cable tools were used from feet to feet, and from feet to feet to DATES  S.I. 10-27- 1961 Put to producing 19	.90-95; :06-12;	2# FR-	2/1000 (	gal, and 3200-33	<del>30-3500#</del> •	sand. Flu IR 16.5	ish v/900 gal BPM. Bropped	mter.	BDP 3500#, max
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;043;000 Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. 1037 A.O.F 1054 MCF/D EMPLOYEES  Driller  Driller  FROM—  TO—  TOTAL FEET  FORMATION RECORD  O 2483 2483 Tan to gry cr-grn ss interbedded w/gry sh. 0jo Alamo ss. White cr-grn s. 245 3019 374 Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.  Fruitland form. Gry carb sh, scattered coal coals and gry, tight, fine-grn ss. 1155 3240 75 Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	206-12;	4400#,	tr pr	3 <del>200-33</del> (	<del>30-3500∦</del> . TC	sand. Fin IR 15.5 OOLS USED	ish v/900 gal BFM. Bropped	water. 2 sets	of 24 balls-3 st
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 1,043,000 Gallons gasoline per 1,000 cu. ft. of gas A.O.F. 1054 MCF/D  EMPLOYEES  Driller  Driller  FROM—  TO—  TOTAL FEET  FORMATION RECORD  Tan to gry cr-grn ss interbedded w/gry sh.  2483 2645 162 Ojo Alsmo ss. White cr-grn 6.  245 3019 374 Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.  Fruitland form. Gry carb sh, scattered coal coals and gry, tight, fine-grn ss.  Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to	ools were u	sed from	32 <del>00-33</del> 0 	90-3500# • TC feet to	sand. Floring IR 16.5 DOLS USED	Brw. Bropped feet, and from	water. 2 sets	BDP 3500#, max of 24 balls-3 e
### Company of the per sq. in	Rotary to	pols were use	sed from	32 <del>90-33</del> 6	**************************************	sand. Fluit 16.5 DOLS USED 3286 DATES	Brw. Bropped feet, and from feet, and from	water. 2 sets	feet tofee
If gas well, cu. ft. per 24 hours 1,043,000 Gallons gasoline per 1,000 cu. ft. of gas  Rock pressure, lbs. per sq. in. 1037  A.O.F 1054 MCF/D  EMPLOYEES  Driller  Driller  FORMATION RECORD  FROM—  TO—  TOTAL FEET  Tan to gry cr-grn ss interbedded w/gry sh. 2483 2645 162 0jo Alsmo ss. White cr-grn s. 245 3019 3165 146  Fruitland form. Gry sh interbedded w/tight gry fine-grn ss. Fruitland form. Gry carb sh, scattered coal coals and gry, tight, fine-grn ss. Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too	ools were use	sed from	32 <del>90-33</del> 6	TC feet to	Find. Finds 16.5  OLS USED  OLS USED  OLS USED  DATES  Put to	feet, and from feet, and from producing	water. 2 sets	feet tofee  feet tofee  feet tofee
Rock pressure, lbs. per sq. in. 1037  A.O.F 105h MCF/D  EMPLOYEES  Driller  Driller  FORMATION RECORD  FROM-  TO-  TOTAL FEET  Total FEET  Total FEET  FORMATION  O 2483 2645 2645 245 3019 374  Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.  3019 3165 3240  75  Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too.  S.i. 10	pools were use	sed from	3200-330 	feet to feet to feet to ours was	Find. Finds 16.5  OLS USED  OLS USED  OLS USED  DATES  Put to	feet, and from feet, and from producing feels of fluid of w	water. 2 deta	feet to fee  feet to fee  feet to fee
Driller  Driller  Driller  FORMATION RECORD  FROM—  TO—  TOTAL FEET  FORMATION  O 2483  2483  2483  Tan to gry cr-grn ss interbedded w/gry sh.  Ojo Alamo ss. White cr-grn s.  245  3019  374  Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.  Total Feet  Formation  O 2483  Tan to gry cr-grn ss interbedded w/gry sh.  Ojo Alamo ss. White cr-grn s.  Total Feet  Fruitland form. Gry carb sh, scattered coal coals and gry, tight, fine-grn ss.  Total Feet  Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too  S.i. to The emulsion;	production	sed from d from for the ater; and	, 19 <b>61</b> first 24 h	feet to feet to feet to ours was feediment.	pand. Fluit 16.5  OLS USED  OLS USED  OLS USED  DATES  Put to	feet, and from feet, and from producing feels of fluid of w	hich	feet to fee feet to fee feet to fee
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2483 2485 2485 2485 3019 374 Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.  3165 3165 3165 3240 75 Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too.  S.i. It The emulsion:  If ga Rock	production;% well, cu.	sed from d from n for the ater; and ft. per 24	1961 first 24 h % se 4 hours 1	ours was ediment. ,043,000 EI, Driller FORM	DATES Put to Gallons  A.O  MPLOYEES	feet, and from feet, and from feet, and from feet, and from feet of fluid of w Gravity, gasoline per 1,054 MCF	hich	feet to feet to feet to feet to fee, 19
3019 3019 3019 3019 3165 3165 3240  Kirtland form. Gry sh interbedded w/tight gry fine-grn ss. Fruitland form. Gry carb sh, scattered coal coals and gry, tight, fine-grn ss. Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too.  S.i. It The emulsion:  If ga Rock	production;% well, cu.	sed from d from n for the ater; and ft. per 24	1961 first 24 h % se 4 hours 1	ours was ediment. ,043,000 EI, Driller FORM	DATES Put to barr  Gallons  MPLOYEES	feet, and from feet, and from feet, and from feet, and from feet of fluid of w Gravity, see gasoline per 1,6.F 1054 MCF	hich	feet tofee feet tofee feet tofee
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coals and gry, tight, fine-grn ss.  3155  3240  75  Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.	Rotary to Cable too.  S.i. to The emulsion; If ga Rock	production;% well, cu.	sed from d from  for the ater; and ft. per 24 lbs. per 3 2645	1961 first 24 h % se 4 hours 1	ours was adding to the control of th	DATES Put to Barron Gallons A.O MPLOYEES ATION REC OJO Al Kirtls	feet, and from feet, and from producing els of fluid of w Gravity, gasoline per 1, F 1054 MCF	hich	feet tofee feet tofee feet tofee
varicolored soft ss.	Rotary to Cable too.  S.f. 10 The emulsion: If ga Rock FROM  0 2433 2,45	production;% well, cu.	sed from	1961 first 24 h % se 4 hours 1	feet to feet t	DATES Put to Barry Gallons A.O MPLOYEES ATION REC OJO Al Kirtls	feet, and from feet, and from producing els of fluid of w Gravity, gasoline per 1, Fr. 1054 MCF	hich Bé. DOO cu. ft. C/D  RMATION  RMATION  S inter  cr-grn sh inte	feet to
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## FORMATION RECORD—Continued

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## 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 balling.

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