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LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

			0 M T			Inoga	101 South	Behrend	Farm	ington New
		ell 011 C								
Lessor or Tract Carson Unit Well No. 21-13 Sec. 13 T. 25N R.12W Mei										
		()			,		ne of Sec.		(
		ation given . determined		a comple ailable re	ete and con cords.	rect r	ecord of the w	en and an	work o	ione thereon
	Mars 07	nor's			igned					in e er
	May 27		age is for th		ion of the	well at	above date.	PIOICACI	OII MIE	TIIGGI
			0				drillingA	pril 20		19.58
	27000 0172	B			AS SANDS		-		الماسير	rii 🦳
	. 1.0	60 /	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	Denote gas by	,		/	atl.	
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							omom	3		
NO. 5, 11	rom				ANT WAT			······································	OHĿ-€∺ ∖ ∷	
No. 1, f	rom						om	to	·	
,							om			
				CAS	SING REC	CORD				
Size casing	Welght per foot	Threads per inch	Make	Amount	Kind of sh	oe Cu	it and pulled from	Perfor From—	ated To-	Purpose
5/8*	24	8	Nat'l	93		[*****	***		Surface
1/2	9.5	<u>8</u>		4999				4860 (gr		Production
								N 74 TH		
!			1 1		1	1	<u> </u>		**************************************	
							RECORD			
Size	Where se	t Num	iber sacks of cer	nent	Method us	ed	Mud gravity	An	nount of m	nud used
5/8*	103		100		Displace	nent	- Prop. to all	openia Alb magas		
1/2*	5007		150		Displace	nent				
				PLUGS	AND AD	APTE	RS	-		
_		Material		PLUGS	AND AD	APTE	RS]	Depth set		
_		Material		PLUGS	AND AD	APTE	l	Depth set	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
_	rs—Mate	Material		PLUGS	AND AD Length	APTE	l	Depth set	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Adapter	rs—Mate	Material	Explosive us	PLUGS	AND AD Length Size OTING RI	APTE	RS I	Depth set	Depth clear	ned out
Adapter	rs—Mate	Material	Explosive us	PLUGS	AND AD Length Size DTING RI	APTE ECOR Date	Depth shot	Depth set	Depth clear	ned out
Adapter	rs—Mate	Material	Explosive us	PLUGS SHOO	AND AD Length Size DTING RI	APTE ECOR	Depth shot	Depth set	Depth clear	ned out
Adapter Size	s—Mate	Materialrial	Explosive us	SHOO ed Tr	AND AD Length Size OTING RI Quantity OOLS USI	Date ED	Depth shot	Depth set	Depth clear	ned out
Adapter Size Rotary	s—Mate	Materialrial	Explosive us	SHOO ed Tr	AND AD Length Size OTING RI Quantity OOLS US	Date ED	D Depth shot	Depth set	Depth clear	ned out
Adapter Size Rotary	sho	Materialrial	Explosive us	SHOO ed True feet to	AND AD Length Size OTING RI Quantity OOLS US: 50 5010	Date ED fee	Depth shot t, and from t, and from	Depth set	feet to	feet
Size Rotary 1 Cable to	shower ools were	Materialrial	0	SHOO ed True feet to	AND AD Length Size DTING RI Quantity OOLS US TO SOLO DATES Put	Date ED fee to pro	Depth shot t, and from ct, and from ducing	Depth set	feet to	feet
Size Rotary to Cable to Ma	shower ools were product	Materialrial	0 	SHOO ed Tr feet t	AND AD Length Size DTING RI Quantity OOLS US TO SOLO DATES Put	Date ED fee to pro	Depth shot t, and from t, and from	Depth set	feet to feet to % was c	feet
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Size Rotary to Cable to Ma The mulsion If g	tools were poly 27. e product gas well, ock pressu	rial rel used re used from used from tion for the water; and cu. ft. per 2- are, lbs. per	0 , 19-50 first 24 hou 1 0.1 % see 4 hours sq. in.	PLUGS SHOO ed True feet to urs was a	AND AD Length Size OTING RI Quantity OOLS US: 50 5010 DATES Put 870 b	Date Date Date Logical feed to proper to pr	Depth shot t, and from oducing of fluid of whi Gravity, °B soline per 1,00 Adams rinkerhoff I	tay 15 ich 99.9 é. Approx	feet to feet to 390 of gas Co.	feet
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Rotary to Cable to Ma The emulsion If g Rocal 1184	tools were	rial rial re used from used from tion for the water; and cu. ft. per 2- are, lbs. per lack abcock 1395 1565	0 .1 % sec 4 hours sq. in	PLUGS SHOO ed True feet to the feet to th	AND AD Length Size OTING RI Quantity OOLS US 50 5010 DATES Put 870 b	Date Date to proper arrels Date To proper arrels Date Date Date	Depth shot t, and from oducing of fluid of whi Gravity, °B soline per 1,00 Adams rinkerhoff Pictured C Lewis	Depth set Lay 15 ich 99.9 é. Approx Orilling MATION liffs	feet to feet to 390 of gas Co.	feet

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Mancos

Gallup

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE	HISLOKK 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 well, give date, size, position, and it any casing was "sidetracked't or left in the well, give itagize and location. If the well has been dynamited give date, size, position, and number "sidetracked't or left in the well, give itagize and location. If the well has been dynamited give date, size, position, and results of pumping or bailing. 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.

DRILL PIPE

SHELL OIL COMPANY

Carson Unit

<u>Bisti</u>	
(FIELD)	

DRILLING REPORT' FOR PERIOD ENDING

13

(SECTION OR LEASE)
T25N R12W
(TOWNSHIP OR RANCHO)

San Juan, New Mexico 4-21-58

-		· · · · · · ·			(TOWNSHIP OR RANCHO)
DAY	DAY			REMA	RK2
:	FROM	то		13 move.	
			Loc	ation: 660'S and 18	880° E of NW Corner, Section 13, T25N, R12W, Juan County, New Mexico
,			Ele	vations: DF 6364.1 GR 6356.4 KB 6365.3	
4-15 to 4-16	ļ	223	Nat chl	o'l. casing at 103' wi coride. Good returns	68. Ran and cemented (93') 8-5/8" 24#, J-55, th 100 sacks cement treated with 2% calcium to surface. Flanged up and waited on cement. casing with 700 psi, 0K.
4-17 to 4-20	2234	4889	<u>Dri</u>	<u>lled 2655</u> ;	
4=21	4889	5010	Dri	(4999) A cement to	trical survey and microlog. Ran and cemented 4-1/2, 9.5# casing at 5007' with 150 sacks reated with 4% gel displaced with oil. Re-
				Checked Mud Sum	BOP daily
				Vis WL 8	9.2 - 9.7#/gal. 37 - 85 sec 3-12 cc 2/82m
					Contractor: Brinkerhoff Drilling Co.
					Drillers: W. F. Black E. Babcock C. C. Adams
		NOITION	AT BEGINNI	NG OF FERIOD	4 % ² ,
	HOLE		CASING SIZE	DEPTH SET	
SIZE	FROM	то			*

RA

SHELL OIL COMPANY

Carson Unit

Bisti

San Juan, New Mexico

DRILLING REPORT FOR PERIOD ENDING

4-21-58

13
(SECTION OR LEASE)
T25N R12W
(TOWNSHIP OR RANCHO)

			(TOWNSHIP OR RANCHO)
DAY	DAY		REMARKS
	FROM	то	
4-28	5010	TD	Ran Gamma Ray - collar log. Perforated w/four $\frac{1}{2}$ " bullet holes/ft. 4860-86°, 4890-4900°, 4940-4954°, and 4958-4974°.
4=30			Ran tubing to 4964'.
5-1		•	Spotted 200 gal. mud acid, <u>Sand Oil Fracture #1</u> . Broke down form- ation at 2200 psi, injected 18,000 gal. crude and 18,000 # sand. Blender locked. Flushed with 120 bbl. crude.
5-2			Broke down formation at 2650°. Injected 4000 gal. crude with 1#/gal. sand, dropped 50 nylon core balls. Injected 5000 gal. crude and 1#/gal. sand, dropped 50 nylon core balls. (Pressure increased from 2650 to 2700). Injected 10,000 gal. crude with 1#/gal. sand, dropped 50 nylon core balls. (Pressure increased from 2700 to 2750 psi) Injected 5000 gal. crude and 1#/gal. sand, dropped 25 nylon core balls. (Pressure increased from 2750 to 2900 and broke back to 2800).
			Injected 5000 gal. crude with 1#/gal. sand, dropped 25 nylon core balls. (Pressure increased from 2800 to 3400 psi. Injected 10,000 gal. crude and 1#/gal. sand. Flushed with 160 bbls. Maximum pressure 3400 psi, minimum pressure 1800 psi, average rate 31.4 bbl./min.
5-3			Cleaned out frac sand from 4960 to 4990. Landing tubing at 4852'.
5-4			Swabbed 110 bbls, well began to flow.
5-5			Well died, swabbed well in.
56			Well died, swabbed to flowing.
5-7			Well died, reswabbed to flowing.
5=8 to 5-14	:		Flowed and recovered all load and frac oil, 1640 bbls.
5-15			INITIAL PRODUCTION Flowing, 870 B/D gross, 869 B/D clean, cut 0.1%, 64/64" bean, 387 MCF/D, GOR 442, TP 450. Completed 5-15-58

	CONDITION AT BEGINNING OF PERIOD					
HOLE			CASING BIZE	DEPTH SET		
SIZE	FROM	то				
12-1/4	0	115	8-5/8"	103 1		
7-7/8	115	5010	4-1/2"	5 3 07 [§]		
DRILL SIZE	PIPE /	11 m				

