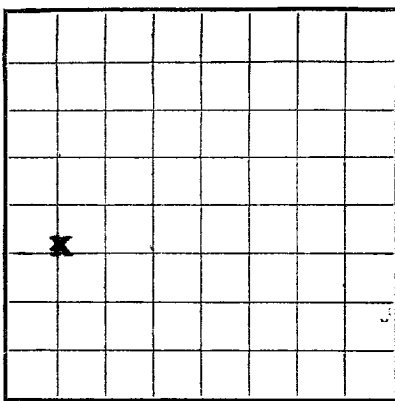


U. S. LAND OFFICE Artesia
SERIAL NUMBER 0925
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
MAR 8 1962
GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Western Development Co. of Dela Address P.O. Box 427, Artesia, New Mexico
Lessor or Tract Wright Federal Field Loco Hills State New Mexico
Well No. 3 Sec. 20 T. 18S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. N. of S. Line and 660 ft. E. of W. Line of Section 20 Elevation 3535 GL
(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 R. M. CaresDate March 5, 1962 Title Production Superintendent

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

Commenced drilling February 14, 1962 Finished drilling February 18, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2351 to 2354 No. 4, from _____ to _____
No. 2, from 2385 to 2388 No. 5, from _____ to _____
No. 3, from 2397 to 2400 No. 6, from _____ to _____

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	Perforated		Purpose
							From—	To—	
7"	124.11	4	Hydram	2412'	Plug	Surface	2351	2354	Production
4 1/2"	111.1	4	Hydram	2412'	Plug	Surface	2385	2388	Production
							2397	2400	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	497'	100	One plug		
4 1/2"	2411'	100	One plug		

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
Treated with 60,000 lb. sand using 1110 barrels lease crude.						

TOOLS USED

Rotary tools were used from Surface feet to 2412 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 5, 1962 Put to producing March 2, 1962
The production for the first 24 hours was 60 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 360
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	160	160	Caliche
160	220	60	Sandy shale
220	320	100	Red bed
320	560	240	Anhy & shale
560	645	85	Salt
645	745	100	Anhy
745	820	75	Salt
820	1255	435	Anhy & shale
1255	1455	200	Broken lime
1455	1720	265	Lime & anhy
1720	1830	110	Lime & blue shale
1830	2005	175	Anhy & red shale
2005	2040	35	Red sand
2040	2275	235	Lime & anhy
2275	2412	137	Lime
	T. D.	2412'	
			Salt 790'
			Yates 970'
			7 Rivers 1310'
			Queen 1930'
			Grayburg 2281'
			Loco Hills 2376'

(OVER)

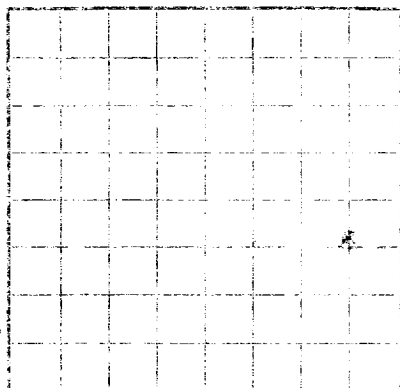
FORMATION RECORD—Continued

16-48094-4

U.S. LAND OFFICE
Bureau of Reclamation
Washington, D.C.
State of Texas
County of Tarrant
City of Fort Worth

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company Name: Western Development Co., Inc.
Address: 1217, Avenue New Mexico
State: New Mexico
City: Albuquerque
County: Bernalillo
Well No.: 20
Section: 20
T18S
R22E
M4N
Location: 1880 ft. N. of line and 660 ft. W. of line of Section 20
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.
Signed: _____
Date: March 2, 1962
Title: Production Supervision

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

Commenced drilling: February 14, 1962
Finished drilling: February 16, 1962

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

No. 1 from 3381 to 3384	No. 4 from 3384 to 3387
No. 2 from 3387 to 3390	No. 5 from 3390 to 3393
No. 3 from 3393 to 3396	No. 6 from 3396 to 3400

IMPORTANT WATER SANDS

No. 1 from 3400 to 3403	No. 8 from 3403 to 3406
No. 2 from 3406 to 3409	No. 4 from 3409 to 3412

CASING RECORD

Casing size, casing per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Set and pulled from	Restored	Purpose
4 1/2	44.7	100	One plug	100	One plug	100	100	It is of the greatest importance to have a complete history of the well. Please state in detail the dates of running, together with the reasons for the work and its results. 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 pulling.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Casing size	Weight per sack	Number sacks of cement	Method used	Mud gravity	Amount of mud used
4 1/2	44.7	100	One plug	100	100

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set
Adapters—Material	Size	

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth returned
1 1/2	60-000	60-000	100	1962	100	100

TOOLS USED

Rotary tools were used from 3412 to 3415 feet and from 3415 to 3418 feet	Cable tools were used from 3418 to 3421 feet and from 3421 to 3424 feet
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DATES

Production for the first 24 hours was 60 barrels of fluid of which 50 was oil and 10 was water; and 6% sediment	Gas well, 100 ft. per 24 hours	Rock pressure, lbs. per sq. in.
Enulsion: 6% water; and 6% sediment	Gravity: 46.0	
Gas well, 100 ft. per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas	
Rock pressure, lbs. per sq. in.		

EMPLOYEES

Driller	Driller
Driller	Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	100	100	Colloidal
100	120	220	Sandy shale
120	130	350	Red sand
130	140	490	Sandy & shale
140	150	640	Salt
150	160	800	Salt
160	170	970	Salt
170	180	1150	Sandy & shale
180	190	1340	Broken lime
190	200	1540	Lime & sandy
200	210	1750	Lime & sand shale
210	220	1970	Sandy & red sand
220	230	2200	Red sand
230	240	2440	Lime & sand
240	250	2690	Lime
250	260	2950	Yates
260	270	3220	Yates
270	280	3500	Yates
280	290	3790	Yates
290	300	4090	Yates
300	310	4400	Yates
310	320	4720	Yates
320	330	5050	Yates
330	340	5390	Yates
340	350	5740	Yates
350	360	6100	Yates
360	370	6470	Yates
370	380	6850	Yates
380	390	7240	Yates
390	400	7640	Yates
400	410	8050	Yates
410	420	8470	Yates
420	430	8900	Yates
430	440	9340	Yates
440	450	9790	Yates
450	460	10250	Yates
460	470	10720	Yates
470	480	11200	Yates
480	490	11690	Yates
490	500	12190	Yates
500	510	12700	Yates
510	520	13220	Yates
520	530	13750	Yates
530	540	14290	Yates
540	550	14840	Yates
550	560	15400	Yates
560	570	15970	Yates
570	580	16550	Yates
580	590	17140	Yates
590	600	17740	Yates
600	610	18350	Yates
610	620	18970	Yates
620	630	19600	Yates
630	640	20240	Yates
640	650	20890	Yates
650	660	21550	Yates
660	670	22220	Yates
670	680	22900	Yates
680	690	23590	Yates
690	700	24290	Yates
700	710	25000	Yates
710	720	25720	Yates
720	730	26450	Yates
730	740	27190	Yates
740	750	27940	Yates
750	760	28700	Yates
760	770	29470	Yates
770	780	30250	Yates
780	790	31040	Yates
790	800	31840	Yates
800	810	32650	Yates
810	820	33470	Yates
820	830	34300	Yates
830	840	35140	Yates
840	850	35990	Yates
850	860	36850	Yates
860	870	37720	Yates
870	880	38600	Yates
880	890	39490	Yates
890	900	40390	Yates
900	910	41300	Yates
910	920	42220	Yates
920	930	43150	Yates
930	940	44090	Yates
940	950	45040	Yates
950	960	46000	Yates
960	970	46970	Yates
970	980	47950	Yates
980	990	48940	Yates
990	1000	49940	Yates