

20-325-21W

Plotted

WELL RECORD AND LOG

Well No. _____ Nd. 1 _____ J. Morrison _____ Farm

Location section ne $\frac{1}{4}$ Sec. 20 Twp. 32 Range 21 County Clark

Watchorn Oil & Gas Company

Rig Commenced _____ 19 _____ }
 Rig Completed _____ 19 _____ } Contractor
 Drilling Commenced Dec. 20th 1923 _____ }
 Drilling Completed _____ 19 _____ } Frost Drilling Co.
 _____ Wichita, Kansas Contractor

CASING AND TUBING

SIZE	Weight Per Foot	PUT IN WELL		PULLED OUT of WELL		LEFT IN WELL		REMARKS
		FEET	INCHES	FEET	INCHES	FEET	INCHES	
20"		150						
12 $\frac{1}{2}$ "	50#	1105						
10"	40#	1832						
8 $\frac{1}{2}$ "	28#	2710						
6 5/8"	24#	3632						

SAND RECORD

NAME	TOP	TOP	FEET OF SAND	REMARKS

FORMATION	FROM	TO	FEET	FORMATION	FROM	TO	FEET
Red Rock	55	185	130	Shale	2415	2420	5
Set 20" Casing at 150'				Lime	2420	2425	5
Lime	185	195	10	Shale	2425	2430	5
Red Rock	195	315	120	Lime	2430	2475	45
Salt	315	425	110	Shale	2475	2480	5
1 bailer water at 380'				Lime	2480	2530	50
Red Rock	425	585	160	Shale	2530	2540	10
Lime	585	600	15	Lime	2540	2590	50
Red Rock	600	685	85	Dark Lime	2590	2600	10
Lime	685	691	6	Shale	2600	2620	20
Red Rock	691	730	39	1 bailer water at 2595'			
Sand	730	735	5	Lime	2620	2630	10
Red Rock	735	950	215	Sand	2630	2645	15
Lime	950	970	20	Hole full water at 2645'			
Red Rock	970	1105	135	Set 8" casing at 2625'			
Set 12 1/2" Casing 1105'				Under Reamed 8" to 2710'			
Broken Lime	1105	1115	10	Sand	2645	2650	5
Rock	1115	1160	45	Water sand	2650	2663	13
le	1160	1185	25	Hole full water at 2663'			
Rock	1185	1205	20	Slate	2663	2667	4
Rock	1205	1225	20	Water sand	2667	2695	28
Rock	1225	1230	5	Lime	2695	2710	15
e	1230	1255	25	Hole full water at 2710'			
ate	1255	1270	15	Lime	2710	2725	15
Shale	1270	1285	15	Slate	2725	2740	15
Salt	1285	1315	30	Lime	2740	2850	110
Red Rock	1315	1325	10	Red Rock	2850	2855	5
Hole Caving 1330' to 1400'				Lime	2855	2862	7
Red Shale	1400	1425	25	Slate	2862	2865	3
Red Rock	1425	1435	10	Lime	2865	2920	55
Set 10" Casing at 1435'				Slate	2920	2925	5
Under Reamed 10" to 1832'				Lime	2925	2950	25
Red Rock	1435	1460	25	Slate	2950	2955	5
Shale	1460	1465	5	Lime	2955	2965	10
Shale	1465	1480	15	Slate	2965	2975	10
Red Rock	1480	1535	55	Lime	2975	2985	10
Red Shale	1535	1590	55	Slate	2985	2990	5
Red Rock	1590	1630	40	Red Rock	2990	2995	5
Shale	1630	1765	135	Lime	2995	3000	5
Slate	1765	1780	15	Lime	3000	3010	10
Shale	1780	1800	20	Slate	3010	3020	10
Slate	1800	1845	45	Lime	3020	3040	20
Shale	1845	1870	25	Slate	3040	3055	15
Shale	1870	1885	15	Lime	3055	3055	0
Lime	1885	1900	15	Slate	3055	3073	18
Shale	1900	1910	10	Lime	3073	3110	37
Salt	1910	1960	50	Slate	3110	3115	5
Slate	1960	2045	85	1 bailer water at 3120'			
Salt	2045	2060	15	Lime	3115	3140	25
Shale	2060	2075	15	Slate	3140	3145	5
Slate	2075	2085	10	Lime	3145	3175	30
Shale	2085	2115	30	10 bailers water at 3175'			
Slate	2115	2145	30	Set 6 5/8" casing 3175'			
Lime	2145	2175	30	Under Reamed to			
Shale	2175	2190	15	Lime	3175	3202	27
Lime	2190	2195	5	Slate	3203	3210	7
Shale & Salt	2195	2205	10	Black Slate	3210	3220	10
Shale	2205	2235	30	Lime	3220	3269	49
Lime	2235	2265	30	Hole full water at 3250'			
Salt	2265	2310	45	Slate	3269	3275	6
Lime	2310	2323	13	Lime	3275	3317	42
Slate	2323	2327	4	More water 3317 to 3330			
Lime	2327	2340	13	Water) -----	3317	3330	13
Slate	2340	2360	20	Sand)	3330	3348	18
Lime	2360	2370	10	Lime	3348	3370	22
Shale	2370	2375	5	Black Slate	3370	3415	45
Lime	2375	2380	5	Dark Lime			
Shale	2380	2385	5	Hole full water at 3370'			
Lime	2385	2415	30	Grey Lime	3415	3422	7
Hole Caving 2360 to 3415'				Dark Lime	3422	3430	8
				Black Shale	3430	3432	2
				Black Slate	3432	3440	8
				Hole caving at 3440'			
				Dark Shale	3440	3448	8

FORMATION	FROM	TO	FEET
Black Slate	3448	3450	2
Black Slate	3450	3458	8
Grey Lime	3458	3490	32
Black Slate	3490	3498	8
Brown Lime	3498	3508	10
Grey Lime	3508	3540	32
Hole full water at	3530'		
Red Rock	3540	3550	10
Blue Shale	3550	3585	35
Brown Lime	3585	3606	21
More water at 3606'	(Cave)		
Grey Lime	3606	3612	6
Brown Lime	3612	3629	17
Grey Lime	3629	3645	16
Black Shale	3645	3653	8
Grey Lime	3653	3695	42
3 bailers water at	3695'		
Hole full water at	3705'		
Grey Lime	3695	3733	38
Grey Lime	3733	3748	15
White Lime	3748	3758	10
More water at 3750'			
Grey Lime	3758	3775	17
Dark Lime	3775	3810	35

FORMATION

FROM

TO

FEET

Watchorn oil & Gas,
#1 morrison

20' 8 1-4
15 1-2 6 5-8
12 1-2 3 3-16

FARM Morrison
COMPANY Robert Watchorn.
CONTRACTOR
COMMENCED Dec. 21, 1923

NO. 1 COUNTY Clarke

20-325-21W



TOTAL DEPTH SHO. QUARTS BETWEEN

CORRESPONDENCE REGARDING THIS WELL SHOULD BE REFERRED TO Watchorn Oil Co.

Oklahoma City, Okla.

ELEVATION

20-32-21W

FIGURES INDICATE BOTTOM OF FORMATIONS.

INITIAL PRODUCTION

REMARKS

Formation	Depth	Formation	Depth.
red rock	135	shale caving	2540
lime	135	lime caving	2590
red rock	270	dark sdy lime(little water	2600
salt 1Bailer water per hr 380	465	shale at 2595)	2620
red rock	585	lime	2630
lime	600	sand(hole Bull water)	2645
red rock	685	sand lime	2663
lime	690	shale	2667
red rock	730	sandy lime	2675
red sand water picked up at 380	785	lime	2705
red rock exhausted fr 730-840	950	hard lime	2725
broken lime	970	shale	2740
red rock	1105	lime	2765
broken lime	1115	hard lime	2825
gray shale	1140	lime	2850
red rock soft	1205	red rock	2855
salt and gray shale	1225	lime	2862
red rock	1235	slate	2865
slate	1255	lime	2920
lime	1270	slate	2925
shale	1315	lime	2950
salt	1325	slate red	2965
red shale	1435	lime	2975
cave at 1350 to 1360		slate	2985
gray shale	1460	lime	2980
blue shale cave	1480	slate	2995
red shale cave	1630	red rock	3000
blue shale cave	1665	lime	3010
gray shale cave	1700	slate	3020
shale cave	1835	lime	3040
salt	1845	slate	3055
shale	1885	lime	3065
salt	1895	slate	3073
lime	1900	lime	3110
shale	1910	slate	3115
salt	1920	lime	3140
shale	2045	slate	3145
salt	2060	lime 10 B.W. at 3175	3175
slate	2075	lime	3203
shale	2145	dark slate caving at 3220	3220
lime	2175	lime	3230
shale	2190	soft lime	3255
lime	2195	hard lime HFW 3250	3269
shale	2255	slate	3275
lime	2265	hard lime	3300
salt	2310	lime	3317
lime	2323	sand water at 3317 3330	3330
slate	2327	lime	3335
lime	2340	whie hard lime	3340
slate	2360	lime	3345
lime	2370	gray lime	3348
shale	2375	black slate-hole caving	3370
lime	2380	dark lime HFW	3393
shale	2385	dark hard lime HFW	3410
lime	2415	gray lime HFW	3430
shale	2420	dark shale HFW	3448
lime	2425	blue slate	3450
shale hole caving some	2430	black slate	3458
lime caving	2475	gray lime	3490
shale caving	2480	blue slate	3498
lime caving	2530	OVER brown lime HFW 3512	3515

File book

Formation	Depth	Formation	Depth
dark lime	3526	little showing of oil at 5125	
gray sand	3535	gray shale	5131
gray lime 12 wtr in hole	3540	gray lime water at 5154	5154
red rock	3550	dr sdy lime wtr at 5160	5160
blue shale	3585	gray lime hole caving	5168
brown lime	3606	dark gray lime 3000' wtr	5171
dark gray lime	3645	black shale	5173
black shale	3653	black sdy shale	5175
gray lime	3685	dark lime hole caving at 5171	5177
sdv gray lime 1BW	3705	gray shale hole caving	5178
gray lime HW 3705	3740	light gray lime hole caving	5199
light gray lime Hole caving	3748	hard dark gray lime hole cav.	5209
white lime more wtr at 3750	3758	gray lime hole caving	5229
gray lime	3777	black shale hole caving	5243
dark lime	3810	gray lime hole caving	5250
gray lime water at 3814	3814	white lime hole caving	5253
dark lime more water at 3815	3822	gray lime hole caving	5261
gray lime	3866	blue slate hole caving	5265
dark lime	3876	gray lime hole caving	5280
dark slate	3904	green shale	5283
dark slate	3925	gray lime some gas	5304
brown lime	3938	sand (25,000,000 ft gas	5318
black slate	3973	brown sand trace of oil	5324
dark lime	3977	hard sharp sand	5344
dark slate	4064	light gray slate	5348
black shale	4170	lime	5352
gray lime	4175	hard lime	5356
gray sand	4205	gray lime	5357
blue sdy lime	4225	hard white lime	5380
gray sdy lime	4240	lime	5448
dark sand	4245	gray lime	5475
dark sdy lime	4255	white lime	5500
dark shale	4265	1/8 b Wtr pr hour at 54 80	
dark lime	4269	dark gray lime	5510
dark shale	4335	white lime	5529
dark slate	4345	gray lime	5543
hole caving	4385	blue lime	5555
blue slate hole caving	4395	gray lime	5606
brown lime hole caving	4420	white lime	5623
red rock hole caving	4422	gray lime	5652
gray lime hole caving	4435	white lime	5679
chattie lime	4455		
gray lime	4465		
blue shale	4475		
black shale hole caving	4515		
dark lime hole caving	4580		
gray lime Hole full wtr 4600	4640		
blue slate	4645		
gray lime Hole full water 4666	4721		
white lime	4725		
gray sdy lime wtr at 4725	4733		
gray lime	4744		
blue shale	4760		
white lime	4803		
dark lime	4810		
gray lime	4845		
blue shale	4854		
dark lime	4864		
gray lime	4898		
blue shale	4910		
black shale	4918		
black shale	4927		
gray lime	4970		
black slate	4977		
gray lime	4997		
blue slate	5004		
gray lime	5030		
blue shale	5040		
gray lime hole caving	5063		
gray shale	5074		
hard gray lime	5125		

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#1 Morrison