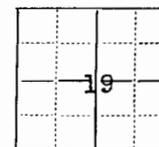


10' FARM NO. COUNTY Doniphan.
 20" 8 1-4 COMPANY Southwest Oil & Gas Co.
 15 1-2 6 5-8 CONTRACTOR
 12 1-2 5 3-16 COMMENCED COMPLETED



TOTAL DEPTH 1571'. SHOT QUARTS BETWEEN
 CORRESPONDENCE REGARDING THIS WELL SHOULD BE REFERRED TO

FIGURES INDICATE BOTTOM OF FORMATIONS ELEVATION INITIAL PRODUCTION
 REMARKS

Formation	Depth	Formation	Depth
clay yellow	30	grey sand	813
blk shale	60	blk shale	818
lime	70	lime	825
blk shale	100	blue shale	830
lime	105	lime	835
blk shale	118	sdv shale	845
lime	120	blue shale	850
sdv shale	135	cap rock	852
lime	139	grey sand	862
light shale	154	blk shale	882
lime	170	lime	885
white shale	173	blue shale	900
lime	178	lime	905
red rock	190	shale	1015
white shale	250	white mud	1018
lime	258	lime	1020
white shale	308	shale coal	1027
lime	310	brown shale	1062
red rock	313	brown sand	1065
white shale	328	sdv shale	1070
lime	340	brown sand	1075
shale	400	sdv shale	1085
lime	402	sand	1090
blue shale	405	???	1132
lime	420	white shale	1135
blk shale	425	grey sand	1190
lime	428	white mud	1192
shale	440	brown sand	1204
lime	456	grey sand	1310
blue shale	476	sdv lime	1312
lime	486	blk shale	1327
white shale	496	sdv lime	1332
lime	503	blk shale	1336
shale	530	sdv shale	1341
lime	540	wh sand water	1366
shale	565	shale	1435
white lime	569	hrd lime	1440
white shale	573	sand	1459
white lime	578	hrd lime	1462
white shale	590	shale	1485
blk shale	600	sdv shale	1520
lime	610	white sand	1542
white shale	615	lime	1571
coal	650		
lime	690		
shale	763	Total Depth	1571'.
lime & gravel	765		
blue shale	804		
lime	806		

Depth	Formation	Thickness	Depth	Formation	Thickness
30	Yellow Clay	30	804	Blue Shale	30
40	White Shale	10	806	Lime	2
60	Black Shale	20	813	Gray Sand	7
70	Lime	10	818	Black Shale	5
90	Black Shale	20	825	Lime	7
100	White Shale	10	830	Blue Shale	5
105	Lime	5	835	Lime	5
115	Black Shale	10	845	Sandy Shale	10
120	Lime <i>B P S L C</i>	5	850	Blue Shale	5
135	Sandy Shale	15	855	Cap Rock	2
139	Lime <i>cl. cu.</i>	4	860	Gray Sand	10
144	Black shale (little water)	5	862	Black Shale	20
150	Light Shale <i>T P S O</i>	6	865	lime	3
170	Lime	10	868	Blue Shale	15
173	White Shale	3	868	Lime	5
178	Lime <i>B P S O</i>	5	870	Black Shale	5
190	Red Rock	12	875	Blue Shale	5
200	Black Shale	10	885	Black Shale	10
250	White Shale	50	885	White Shale	10
258	Lime	8	895	Black Shale	10
285	Brown Shale 35	25	975	Brown Shale	30
308	White Shale 25 <i>Pdh</i>	25	980	Blue Shale (67 Line 7)	25
310	Lime 2	2	992	White Shale (5)	5
313	Red Rock 3	3	1000	Sandy Shale	13
328	White Shale 13 <i>P P P</i>	13	1015	Blue Shale	5
340	Lime 12	12	1025	White Mud	3
360	White Shale 26	26	1030	Lime	2
368	Blue Shale 30	30	1037	Black Shale and COAL	17
400	White Shale 10	10	1050	Brown Shale	35
402	Lime	2	1065	Brown Sand	3
425	Blue Shale	3	1070	Sandy Shale	10
428	Lime	10	1075	Brown Sand	5
435	Black Shale	5	1085	Sandy Shale	10
438	Lime	3	1090	SAND (Water, 3 1/4 Casing.)	5
440	White Shale	10		(Started under reaming)	
445	Lime	5	1130	-----	12
470	Blue Shale	25	1135	White Shale	3
485	Lime	10	1140	Gray Sand	25
496	White Shale	10	1150	White Mud	5
505	Lime	7	1204	Brown Sand	12
520	Blue Shale 15	15	1310	Gray Sand	100
530	White Shale	2	1312	Sandy Lime	2
540	Blue Shale	10	1327	Black Shale	15
540	Lime	10	1332	Sandy Lime	5
555	Brown Shale	15	1336	Black Shale	4
565	White Shale	10	1341	Sandy Shale	3
580	Hard White Lime	4	1346	Black Shale	5
578	White Shale	4	1351	Sandy Shale	3
578	White Shelly Lime	5	1366	White Sand (Water)	15
610	White Shale	12	1401	Black Shale	35
620	Black Shale	10	1405	White Shale	4
630	Lime	10	1435	Black Shale	30
635	White Shale	5	1440	Hard Lime (Set Casing.)	35
640	COAL	2		Under reamed to this point)	
650	Lime	10	1450	Sand	10
710	Blue Shale	30	1462	Hard Lime	33
735	Sandy Shale	15	1477	White Sha!	15
735	Blue Shale	38	1485	Black Sha!	8
765	Lime and Gravel	12			
	(Water 3 1/4 Casing)				

19-4-21 E
4319
± 985' elev.

35 22 29
 1520 Sandy Shale
 1542 White Sand
 Total Depth 1571 Line

Depth to Mississippian Line Stone 1542 feet
 Total Depth ----- 1571 feet

5012