Lease:	Spindle
Owner:	Bobcat Oilfield Services Inc
OPR #:	3895
Contractor:	DALE JACKSON PRODUCTION CO.
OPR #:	4339

Surface: 20' of 6"	Cemented: 5 Sacks	Hole Size: 8 ¾"
Long string: 416' 2 7/8 8 round	Cemented: 62 sacks	Hole Size: 5 5/8

Dale Jackson Production Co.
Box 266, Mound City, Ks 66056
Cell # 620-363-2683
Office # 620-363-2696

Well #: 3-18	
Location: SE,SE,SE,SW, S18-T17-R24E	
County: Miami	
FSL: 179	
FEL: 2859	
API#: 15-121-31557-00-00	
Started: 12/13/18	
Completed: 12/18/18	
TD: 421'	

SN: 384'	Packer: -
Plugged: -	Bottom Plug: -

Well Log

TKN	BTM Depth	Formation	TKN	BTM Depth	Formation
1	1	Top Soil			
5	6	Clay			
13	19	Lime			
26	45	Shale			
12	57	Lime			
8	65	Shale			
5	70	Sand (black sand strks)			
10	80	Shale			
6	86	Light Shale			
4	90	Lime			
46	136	Shale			
12	148	Lime			
14	162	Shale			
26	188	Lime (odor)			
8	196	Black Shale			
20	216	Lime			
2	218	Shale			
2	220	Black Shale			
3	223	Lime			
4	227	Shale			
9	236	Lime			
5	241	Shale light			
3	244	Sandy Shale (odor)			
13	257	Shale			
7	264	Sand			
2	266	Sandy Shale			
80	346	Shale			
33	379	Light Shale			
3	382	Black Shale (strong odor)			
4	386	Light Shale (odor)			
1	387	Oil Sand (shaley) (fair bleed)			
5	392	Oil Sand (limey) (coarse) (fair bleed)			
4	396	Oil Sand (shaley) (fair bleed)			
5	401	Sandy Shale (Oil sand strks)			
TD	421	Shale			
					Surface 12/13/18, Set time 2:00 pm
					Called 1:00 pm, Talked to Brooke
					Long string 416' 2 7/8 , TD 421'
					12/18/18 Called 2:30 pm
					Set time 3:00 pm, Talked to Michelle