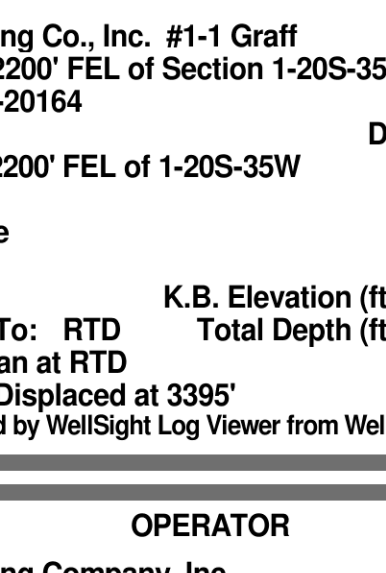




WESLEY D. HANSEN Consulting Petroleum Geologist
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KGS
 AAPG
 Kansas License #418



Scaled to 2000' FSL
MURFIN DRILLING COMPANY, INC.
WICHITA, KANSAS
 Measured Depth Log

Well Name: Murfin Drilling CO., Inc. #1-1-205-35W
 Location: 2200' FSL, 2200' FEL of Section 1-205-35W Wichita, County, KS
 License Number: AP1-15-203-20-2011
 Spud Date: 8-20-2011
 Surface Coordinates: 2200' FSL, 2200' FEL of 1-205-35W
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 3135' K.B. Elevation (ft): 3146'
 Logged Interval (ft): 3600' Total Depth (ft): 5090'
 Formation: RTD
 Type of Drilling Fluid: Mississippian
 Chemical: Displaced
 Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR
 Company: Murfin Drilling Company, Inc.
 Address: 250 N. Water Suite 300 Wichita, KS 67202

GEOLOGIST
 Name: Wesley D. Hansen
 Company: Wesley D. Hansen - Consulting Petroleum Geologist
 Address: 212 N. Market, Suite 257 Wichita, KS 67202
 Office: 316-267-7313 Cellular: 316-772-6188

COMMENTS
 Contractor: Murfin Drilling Company, Inc. Rig #22
 Pusher: Kelly Wilson
 Surface Casing: 8 5/8" set at 224' w/165x Production Casing: P&A
 Mud by: MudCo - Tony Maestas was the engineer
 DST's by: Tribolite (Duk Smith & Will Maclean were the testers)
 Logs by: Log-Tech (DIL, CN-CD, MLL, BHCs)
 Deviation Surveys: 1/4 deg @ 225'; 1/2 deg @ 1862'; 1/2 deg @ 2613'; 1 deg @ 3600'; 1 deg @ 5090'

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	HTC	HA116C	225'	335'	1 3/4
2	7 7/8"	HTC	DP056F	3600'	335'	28 3/4
3	7 7/8"	HTC	GX22S	5090'	1490'	85 1/2

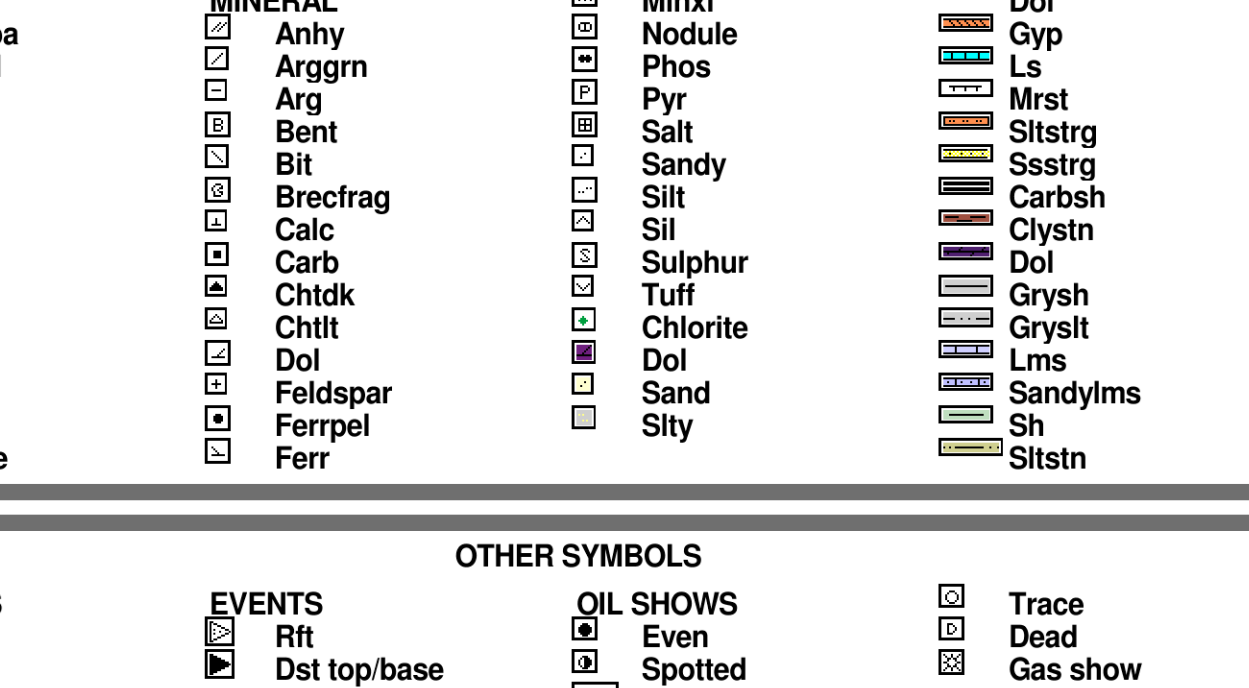
FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS Depth Datum	LOG TOPS Depth Datum	COMPARISON WELL MDCI Minnix 1-7 900' FNL, 335' FWL Section 7-205-34W 3140' KB
Anhydrite	2327' +819	2323' +823	-6'
B/Anhydrite	2340' +806	2338' +808	-4'
3735' -589	3736' -589		-1'
Heebner Shale	4009' -863	4005' -859	flat
Lansing	4059' -813	4058' -812	-3'
4365' -129	4365' -129		-1'
Stark Shale	4422' -1276	4420' -1274	-2'
Hushpuckney Shale	4468' -1322	4467' -1321	-2'
Marmaton	4540' -1394	4536' -1390	-4'
Pawnee	4626' -1480	4626' -1480	-6'
Fort Scott	4665' -1519	4665' -1520	-1'
Cherokee Shale	4692' -1546	4693' -1547	-5'
Johnson	4750' -1604	4750' -1604	-6'
Morrow	4856' -1710	4856' -1710	-7'
Mississippian	4938' -1770	4936' -1770	-2'
RTD	5030' -1944	5090' -1944	
LTD		5090'	

DRILLSTEM TESTS

DST No. 1 Marmaton Interval: 4571-4611'
 Times: 15-30-30-60
 Recovery: 5' Mud w/ oil spots (40m, 40m)
 60hly: 1054' W chl. 57.000
 FP: 60-286/300-571 SIP: 1189-1161
 HP: 2367-2283 BHT: 116 deg. F

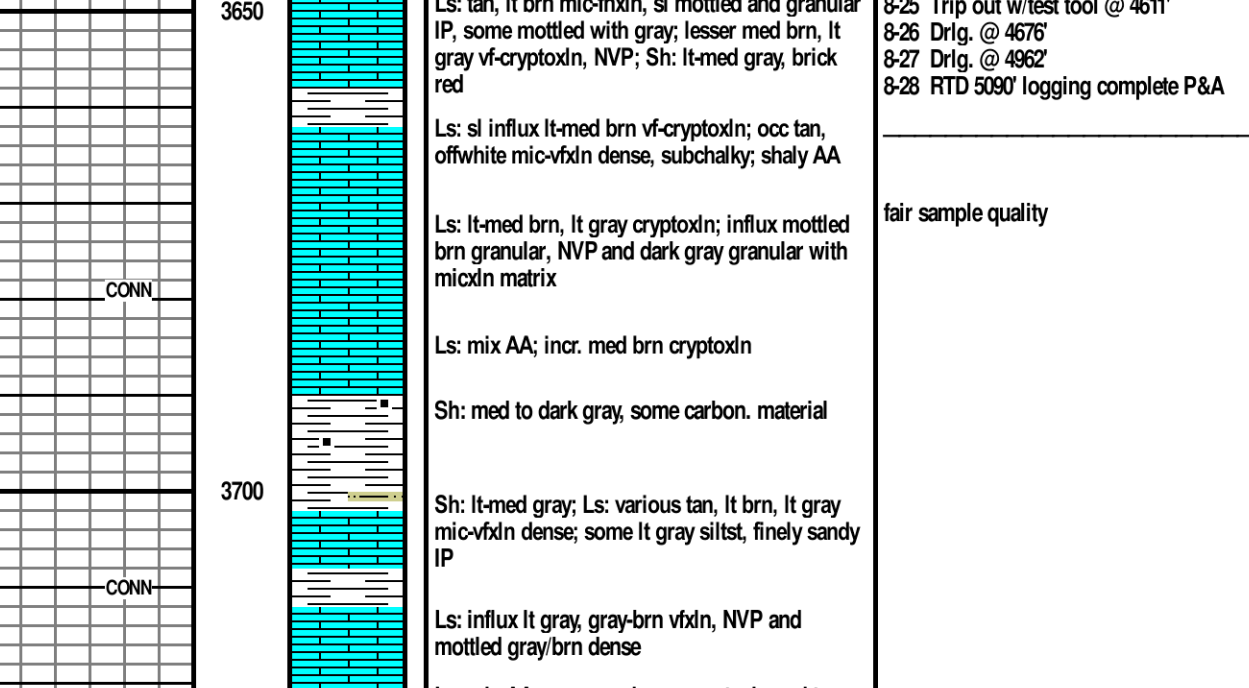
ISP: strong blow, B.O.B. in 4 minutes
 FSP: no return
 IFSP: no return
 FFSP: no return



DRILLSTEM TESTS

DST No. 2 Pawnee Interval: 4612-4657'
 Times: 30-30-30-60
 Recovery: 5' Mud w/ oil spots (40m, 40m)
 60hly: 1054' W chl. 57.000
 FP: 19-223/23-29 SIP: 146-799
 HP: 2392-2173 BHT: 114 deg. F

ISP: weak surface blow, died in 4 minutes
 FSP: no return
 IFSP: no return
 FFSP: no return



ROCK TYPES

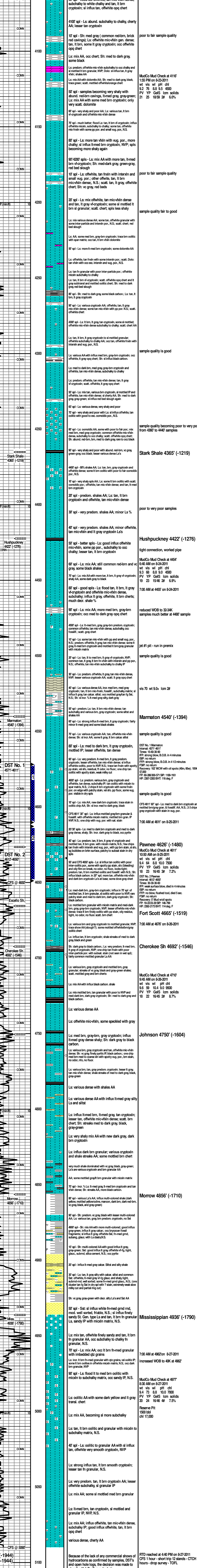
Anhy	Salt	Dol	Silysh
Int	Shale	Dol	Silydolo
Coal	Sho	Dol	Silydolo
Congl	Stgt	Dol	Silydolo
Dol	Stst	Dol	Silydolo
Gyp	Carb	Dol	Silydolo
Lmst	Cs	Dol	Silydolo
	Sh	Dol	Silydolo
	Sh	Dol	Silydolo
	Sh	Dol	Silydolo
	Sh	Dol	Silydolo

ACCESSORIES

- | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Plant | <input type="checkbox"/> Glauc | <input type="checkbox"/> STRINGER |
| <input type="checkbox"/> Strom | <input type="checkbox"/> Cup | <input type="checkbox"/> Anhy |
| <input type="checkbox"/> Foss | <input type="checkbox"/> Hymn | <input type="checkbox"/> Arg |
| <input type="checkbox"/> Fossil | <input type="checkbox"/> Kaol | <input type="checkbox"/> Bent |
| <input type="checkbox"/> Osmold | <input type="checkbox"/> Marl | <input type="checkbox"/> Coal |
| <input type="checkbox"/> Anhy | <input type="checkbox"/> Nodule | <input type="checkbox"/> Dol |
| <input type="checkbox"/> Arggrn | <input type="checkbox"/> Phos | <input type="checkbox"/> Gyp |
| <input type="checkbox"/> Bent | <input type="checkbox"/> Pyro | <input type="checkbox"/> Dol |
| <input type="checkbox"/> Bit | <input type="checkbox"/> Sand | <input type="checkbox"/> Mrst |
| <input type="checkbox"/> Calc | <input type="checkbox"/> Sil | <input type="checkbox"/> Ststgr |
| <input type="checkbox"/> Carb | <input type="checkbox"/> Sil | <input type="checkbox"/> Carbsh |
| <input type="checkbox"/> Chktk | <input type="checkbox"/> Silphur | <input type="checkbox"/> Sstgr |
| <input type="checkbox"/> Dol | <input type="checkbox"/> Turf | <input type="checkbox"/> Carbstn |
| <input type="checkbox"/> Feldspar | <input type="checkbox"/> Chlorite | <input type="checkbox"/> Gysht |
| <input type="checkbox"/> Ferr | <input type="checkbox"/> Dol | <input type="checkbox"/> Lms |
| | <input type="checkbox"/> Sand | <input type="checkbox"/> Sandylms |
| | <input type="checkbox"/> Sity | <input type="checkbox"/> Sh |
| | | <input type="checkbox"/> Silstn |

OTHER SYMBOLS

- | | | | |
|-------------------------------|---------------------------------------|------------------------------------|-----------------------------------|
| <input type="checkbox"/> Core | <input type="checkbox"/> Rft | <input type="checkbox"/> Oil Shows | <input type="checkbox"/> Trace |
| <input type="checkbox"/> Dst | <input type="checkbox"/> Dst top/base | <input type="checkbox"/> Even | <input type="checkbox"/> Dead |
| | | <input type="checkbox"/> Spotted | <input type="checkbox"/> Gas show |
| | | <input type="checkbox"/> Quiet | |



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