



DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Avenue
Hays Kansas 67601+2242

ATTN:

Walz-Mustang SOL #16

7/11S/20E/Ellis

Start Date: 2013.11.15 @ 23:09:00

End Date: 2013.11.16 @ 06:51:00

Job Ticket #: 17063 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

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Werth Exploration Trust

7/11S/20E/Ellis

Walz-Mustang SOL #16

DST # 1

KC zone L thru Arbuc

2013.11.15



DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust
 1308 Schwaller Avenue
 Hays Kansas 67601+2242
 ATTN:

7/11S/20E/Ellis
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Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 48.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.76 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3560.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3748.90 ft			
Interval between Packers:	188.90 ft			
Tool Length:	207.66 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3546.24	
Hydraulic Tool	5.00			3551.24	
Jars	5.00			3556.24	
Safety Joint	2.00			3558.24	
Packer	1.76			3560.00	18.76 Bottom Of Top Packer
Change Over Sub	0.79			3560.79	
Drill Pipe	95.01			3655.80	
Change Over Sub	0.66			3656.46	
Handling Sub	5.00			3661.46	
Perforations	12.00			3673.46	
Recorder	0.00	6666	Inside	3673.46	
Recorder	0.00	6838	Inside	3673.46	
Blank Off Sub	0.65			3674.11	
Travel Collar	1.67			3675.78	
Packer Interval side	1.70			3677.48	
Packer Tail Side	1.55			3679.03	
Change Over Sub	0.64			3679.67	
Drill Pipe	62.57			3742.24	
Change Over Sub	0.66			3742.90	
Perforations	3.00			3745.90	
Recorder	0.00	6749	Below	3745.90	
Bullnose	3.00			3748.90	188.90 Anchor Tool

Total Tool Length: 207.66



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	Mud 100%	0.334
252.00	Gas cut Oily Mud	2.788
0.00	5 Gas/25 Free Oil/20 Emuls. Oil/50% Mud	0.000
189.00	Gas cut Muddy Emuls. Oil	2.651
0.00	5% Gas/35% Mud/60% Emuls. Oil	0.000

Total Length: 509.00 ft Total Volume: 5.773 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



