



DRILL STEM TEST REPORT

Prepared For: **KenMark Corporation**

P.O. Box 572
Hays, KS 67601

ATTN: Mark Kilian

28-11-18 Ellis KS

Fisher #5

Start Date: 2001.06.25 @ 09:06:32

End Date: 2001.06.25 @ 17:57:31

Job Ticket #: 15457 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

KenMark Corporation

Fisher #5

28-11-18 Ellis KS

DST # 1

Arbuckle

2001.06.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

ATTN: Mark Kilian

Job Ticket: 15457

DST#: 1

Test Start: 2001.06.25 @ 09:06:32

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:31

Time Test Ended: 17:57:31

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3636.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Total Depth: 3658.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2119.00 ft (KB)

2114.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357 Inside

Press@RunDepth: 228.27 psig @ 3637.01 ft (KB)

Start Date: 2001.06.25

End Date:

2001.06.25

Start Time: 09:06:32

End Time:

17:57:31

Capacity: 7000.00 psig

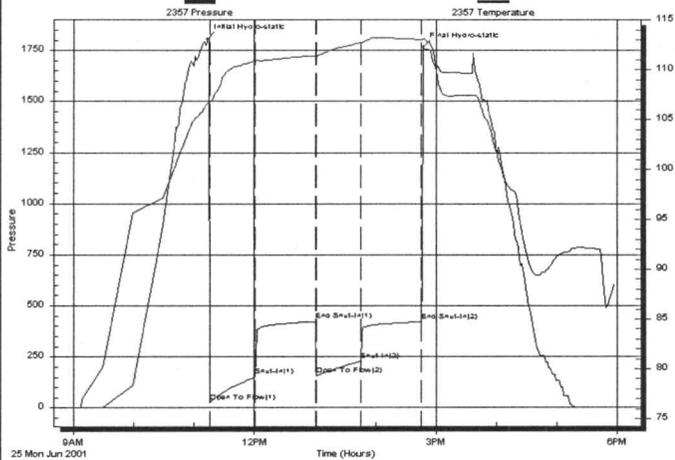
Last Calib.: 2001.01.27

Time On Btm: 2001.06.25 @ 11:13:01

Time Off Btm: 2001.06.25 @ 14:47:31

TEST COMMENT: IF-Strong BOB in 18 min
FF-Strong BOB in 40 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.16	106.58	Initial Hydro-static
3	24.88	106.71	Open To Flow (1)
48	150.63	110.95	Shut-In(1)
108	422.78	111.41	End Shut-In(1)
108	156.20	111.40	Open To Flow (2)
153	228.27	112.69	Shut-In(2)
213	420.14	113.03	End Shut-In(2)
215	1766.85	113.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mud cut gassy oil 10%g 70%o 20%m	0.87
496.00	Clean gassy oil 10% g 90% o	6.96

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

Job Ticket: 15457

DST#: 1

ATTN: Mark Kilian

Test Start: 2001.06.25 @ 09:06:32

Tool Information

Drill Pipe:	Length: 2891.00 ft	Diameter: 3.80 inches	Volume: 40.55 bbl	Tool Weight: 800.00 lb
Heavy Wt. Pipe:	Length: 744.00 ft	Diameter: 3.80 inches	Volume: 10.44 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.99 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	19.01 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3636.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	42.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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S.I. Tool	5.00			3621.00	
HMV	5.00			3626.00	
Packer	5.00			3631.00	20.00 Bottom Of Top Packer
Packer	5.00			3636.00	
Stubb	1.00			3637.00	
Recorder	0.01	2357	Inside	3637.01	
Perforations	18.00			3655.01	
Recorder	0.01	13254	Outside	3655.02	
Bullnose	3.00			3658.02	22.02 Bottom Packers & Anchor
Total Tool Length:	42.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

Job Ticket: 15457

DST#: 1

ATTN: Mark Kilian

Test Start: 2001.06.25 @ 09:06:32

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 21 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.74 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Mud cut gassy oil 10%g 70%o 20%m	0.870
496.00	Clean gassy oil 10% g 90% o	6.958

Total Length: 558.00 ft Total Volume: 7.828 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

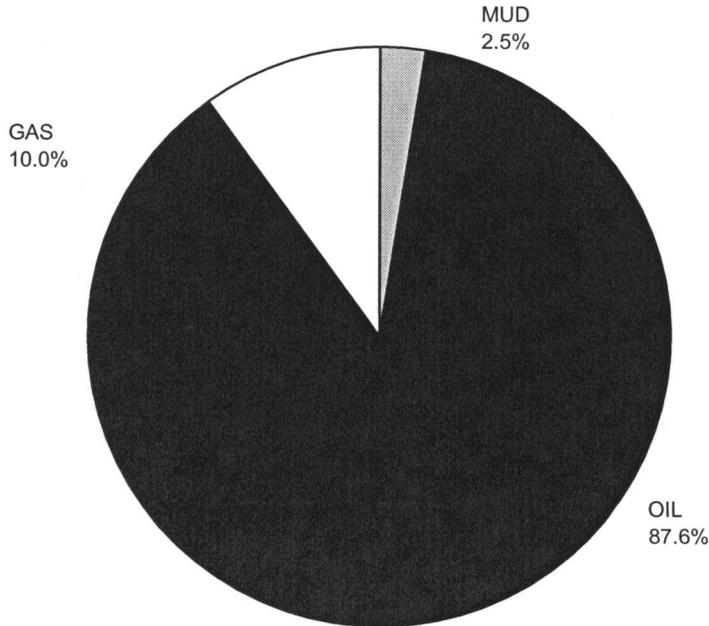
CALCULATED RECOVERY ANALYSIS

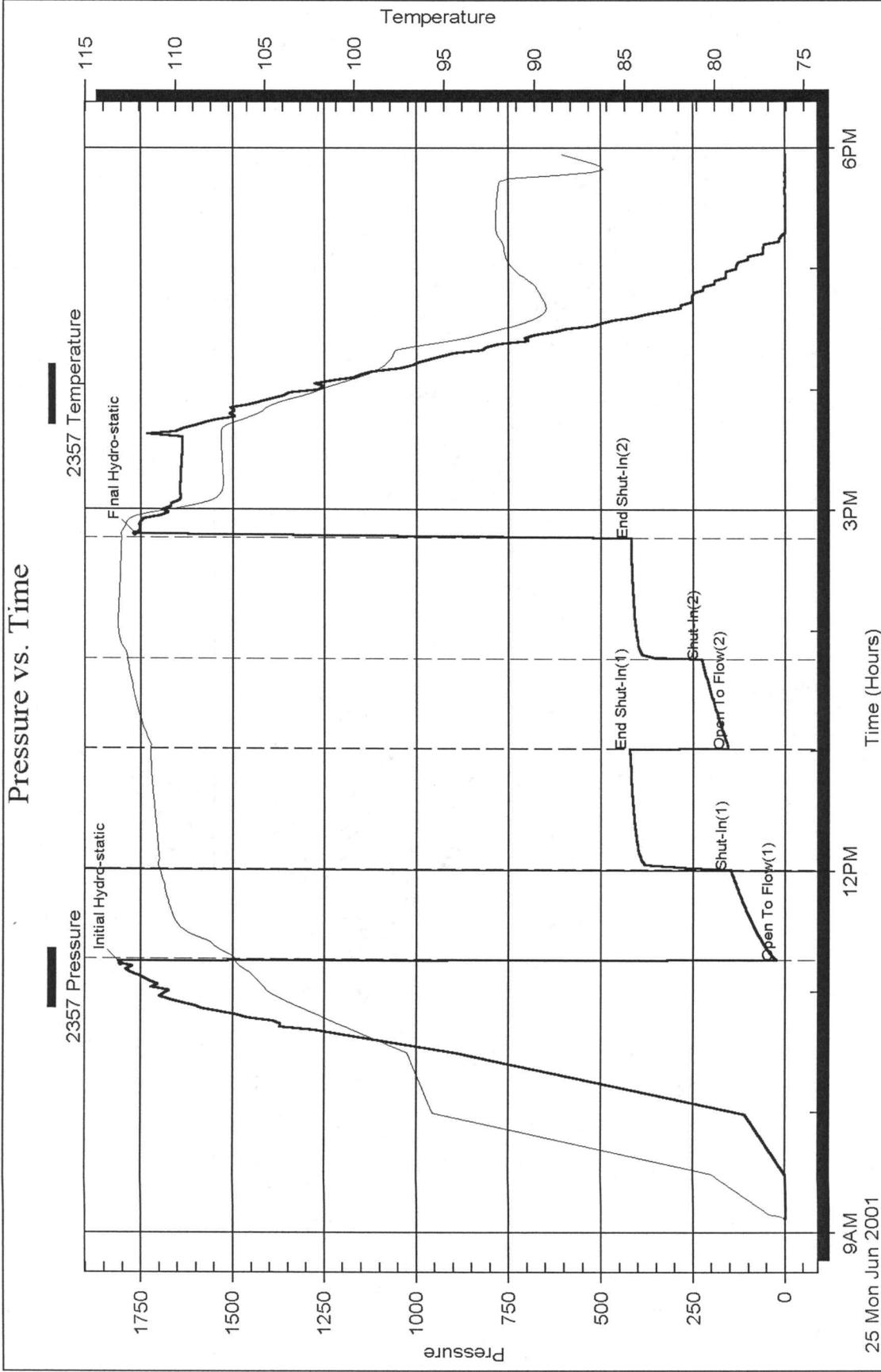
DST 1

TICKET 15457

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	0	0	0	0	0	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	496	10	49.6	90	446.4	0	0	0	0
PIPE 2	62	10	6.2	70	43.4	0	0	20	12.4
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
DRILL 1	0	0	0	0	0	0	0	0	0
COLLARS 2	0	0	0	0	0	0	0	30	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
TOTAL	558	0	55.8	0	489.8	0	0	0	12.4

BBL OIL= 3.4286 * HRS OPEN 1.5 = BBL/DAY 54.8576
 BBL WATER= 0 * = 0
 BBL MUD= 0.09672
 BBL GAS = 0.3906







DRILL STEM TEST REPORT

Prepared For: **KenMark Corporation**

P.O. Box 572
Hays, KS 67601

ATTN: Mark Kilian

28-11-18 Ellis KS

Fisher #5

Start Date: 2001.06.26 @ 04:04:50

End Date: 2001.06.26 @ 13:48:20

Job Ticket #: 15458 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

KenMark Corporation

Fisher #5

28-11-18 Ellis KS

DST # 2

Arbuckle

2001.06.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

ATTN: Mark Kilian

Job Ticket: 15458

DST#: 2

Test Start: 2001.06.26 @ 04:04:50

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:20

Time Test Ended: 13:48:20

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3648.00 ft (KB) To 3668.00 ft (KB) (TVD)**

Total Depth: 3668.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2119.00 ft (KB)

2114.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 264.88 psig @ 3649.01 ft (KB)

Start Date: 2001.06.26

End Date:

2001.06.26

Start Time: 04:04:51

End Time:

13:48:20

Capacity: 7000.00 psig

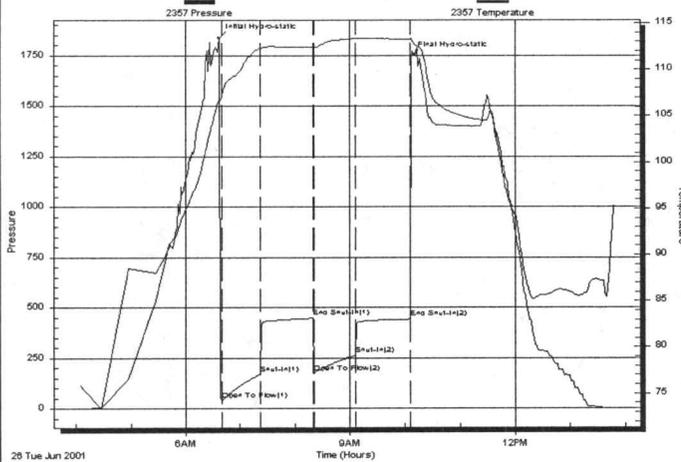
Last Calib.: 2001.01.27

Time On Btm: 2001.06.26 @ 06:36:50

Time Off Btm: 2001.06.26 @ 10:06:50

TEST COMMENT: IF-Strong BOB in 12 min
FF-Strong BOB in 30 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.00	106.67	Initial Hydro-static
4	40.38	107.34	Open To Flow (1)
45	170.74	112.26	Shut-In(1)
104	448.03	112.39	End Shut-In(1)
105	176.06	112.38	Open To Flow (2)
150	264.88	113.30	Shut-In(2)
209	443.33	113.26	End Shut-In(2)
210	1744.00	113.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Muddy water 70%w 30%m	2.61
62.00	Slightly oil cut mud 5%o 95%m	0.87
434.00	CGsyOil 10% g 90%m	6.09

Gas Rates

Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

Job Ticket: 15458

DST#: 2

ATTN: Mark Kilian

Test Start: 2001.06.26 @ 04:04:50

Tool Information

Drill Pipe:	Length: 2891.00 ft	Diameter: 3.80 inches	Volume: 40.55 bbl	Tool Weight: 800.00 lb
Heavy Wt. Pipe:	Length: 744.00 ft	Diameter: 3.80 inches	Volume: 10.44 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.99 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	7.01 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3648.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	40.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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S.I. Tool	5.00			3633.00	
HMV	5.00			3638.00	
Packer	5.00			3643.00	20.00 Bottom Of Top Packer
Packer	5.00			3648.00	
Stubb	1.00			3649.00	
Recorder	0.01	2357	Inside	3649.01	
Perforations	16.00			3665.01	
Recorder	0.01	13254	Outside	3665.02	
Bullnose	3.00			3668.02	20.02 Bottom Packers & Anchor
Total Tool Length:	40.02				



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DRILL STEM TEST REPORT

FLUID SUMMARY

KenMark Corporation

Fisher #5

P.O. Box 572
Hays, KS 67601

28-11-18 Ellis KS

Job Ticket: 15458

DST#: 2

ATTN: Mark Kilian

Test Start: 2001.06.26 @ 04:04:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	Muddy w ater 70%w 30%m	2.609
62.00	Slightly oil cut mud 5%o 95%m	0.870
434.00	CGsyOil 10% g 90%m	6.088

Total Length: 682.00 ft Total Volume: 9.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

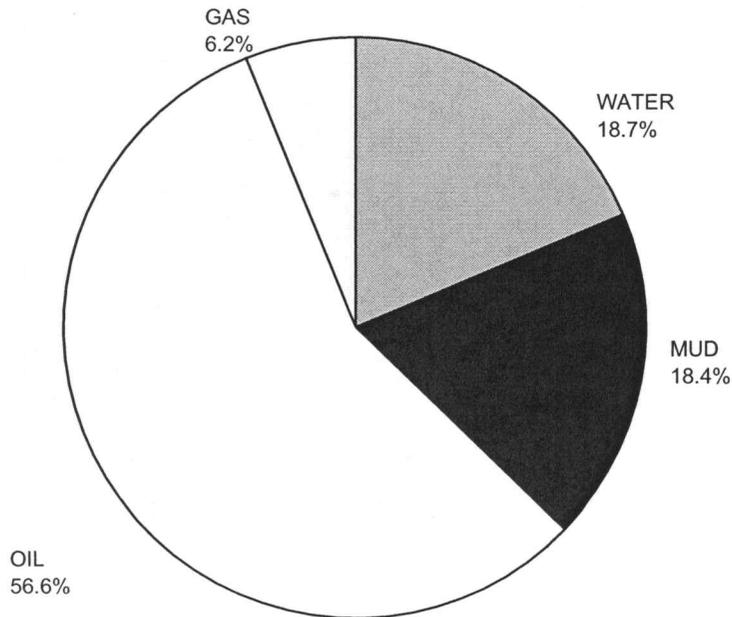
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 15458

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	1	0	0	0	0	0	0	0	0	
PIPE	2	0	0	0	0	0	0	0	0	
	3	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	
	5	0	0	0	0	0	0	0	0	
	6	0	0	0	0	0	0	0	0	
WEIGHT	1	434	10	43.4	90	390.6	0	0	0	0
PIPE	2	186	0	0	0	0	70	130.2	30	55.8
	3	62	0	0	5	3.1	0	0	95	58.9
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	0	0	0	0	0	0	0	0	0
COLLARS	2	0	0	0	0	0	0	0	30	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		682	0	43.4	0	393.7	0	130.2	0	114.7

BBL OIL= 2.7559 * HRS OPEN 1.5 = BBL/DAY 44.0944
 BBL WATER= 0.9114 * = 14.5824
 BBL MUD= 0.89466
 BBL GAS = 0.3038



Serial #: 2357

Inside

KenMark Corporation

28-11-18 Ellis KS

DST Test Number: 2

