DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: Harbin 3 Dst 1

TIME ON: 07:42

TIME OFF: 15:53

Company BOP West LLC — Lease & Well No. Harbin 3

Contractor C & G Drilling — Charge to BOP West LLC

Elevation 1311 Sur — Formation Burgff Sand — Effective Pay _____ Ft. — Ticket No. RR097

Date Oct/10/2014 — Sec. 7 — Twp. 16 S — Range 1 W — County Saline — State KANSAS

Test Approved By Frank Mize — Diamond Representative RICKY RAY

Formation Test No. 1 — Interval Tested from 2560 ft. to 2685 ft. — Total Depth 2685 ft.

Packer Depth 2555 ft. — Size 6 3/4 in. — Packer depth _____ ft. — Size 6 3/4 in.

Packer Depth 2560 ft. — Size 6 3/4 in. — Packer depth _____ ft. — Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2542 ft. — Recorder Number 0062 — Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 2659 ft. — Recorder Number 5954 — Cap. 5000 P.S.I.

Below Straddle Recorder Depth _____ ft. — Recorder Number _____ — Cap. _____ P.S.I.

Mud Type CHEM — Viscosity 39 — Drill Collar Length 300 ft. — I.D. 2 1/4 in.

Weight 9.2 — Water Loss 10.6 cc. — Weight Pipe Length 0 ft. — I.D. 2 7/8 in

Chlorides 1150 P.P.M. — Drill Pipe Length 2227 ft. — I.D. 3 1/2 in

Jars: Make STERLING — Serial Number 8 — Test Tool Length 33 ft. — Tool Size 3 1/2-IF in

Did Well Flow? NA — Reversed Out NA — Anchor Length 125A (32P) ft. — Size 4 1/2-FH in

Main Hole Size 7 7/8 — Tool Joint Size 4 1/2 xh in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in

Blow: 1st Open: 3/4" Blow (BOB in 22 mins) NOBB

2nd Open: 1/4" Blow (BOB in 33 mins) NOBB

Recovered 15 ft. of GIP

Recovered 15 ft. of O 100% O 36 Gravity @ 60 Deg

Recovered 332 ft. of G w/ HOM 6 % G 37% O 57% M

Recovered 347 ft. of Total Fluid

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Tool Sample: 10 % G 30% O 60% M

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 9:36 AM A.M. P.M. — Time Started Off Bottom 12:36 PM A.M. P.M. — Maximum Temperature 101

Initial Hydrostatic Pressure ..... (A) 1219 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 17 P.S.I. to (C) 102 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 420 P.S.I.

Final Flow Period ..... Minutes 45 (E) 112 P.S.I. to (F) 160 P.S.I.

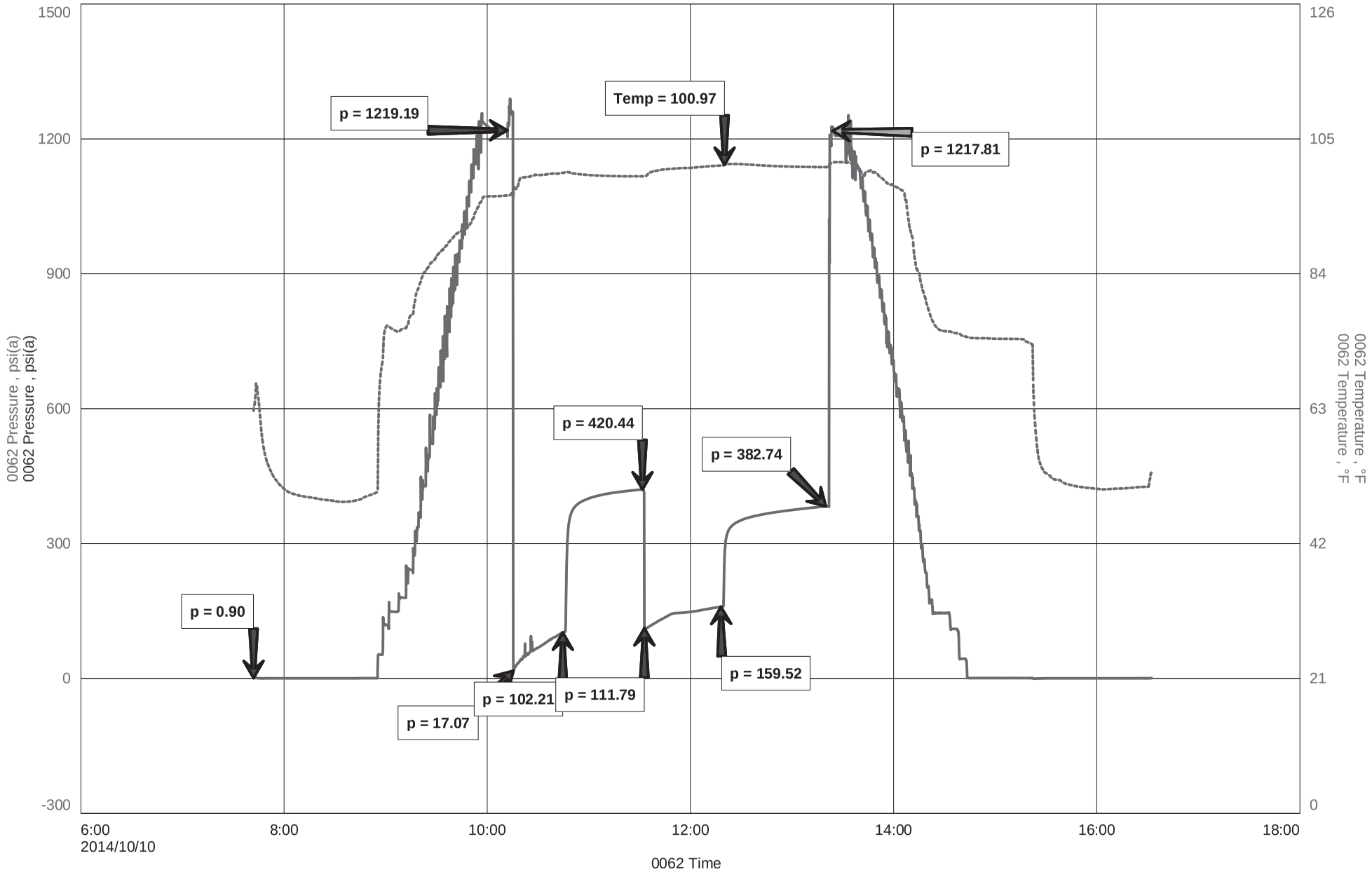
Final Closed In Period ..... Minutes 60 (G) 383 P.S.I.

Final Hydrostatic Pressure ..... (H) 1218 P.S.I.

BOP West LLC
Dst 1 Burgff Sand (2560-2685)
Start Test Date: 2014/10/10
Final Test Date: 2014/10/10

Harbin 3
Formation: Dst 1 Burgff Sand (2560-2685)
Pool: Infield
Job Number: RR097

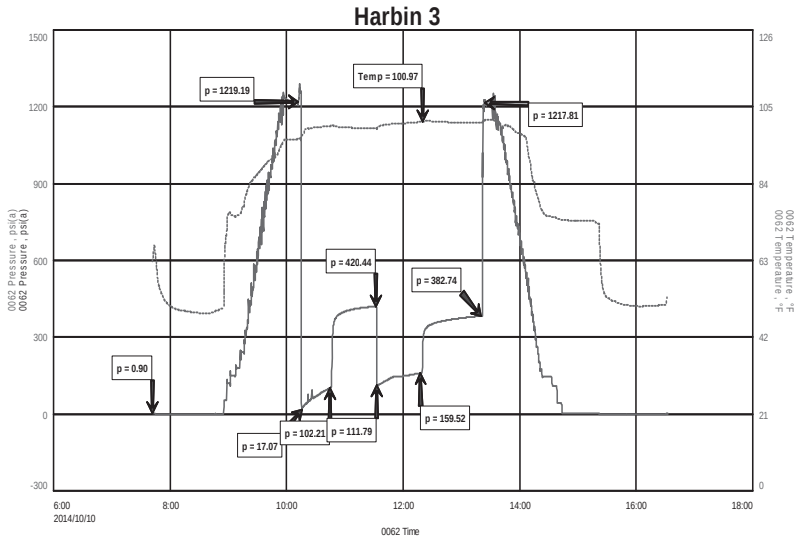
Harbin 3



Diamond Testing LLC
P.O. Box 157
HoisingtonKS 67544

Ricky Ray - Tester
(620) 617-7261

Wellsite Report



General Information

Company Name	BOP West LLC
Contact	Steven W Sigler
Well Operator	BOP West LLC
Well Name	Harbin 3
Surface Location	Sec: 7-16s-1w (Saline County)
Field	Hunter North
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Frank Mize
Gauge Name	0062

Test Information

Job Number	RR097	
Test Type	Drill Stem Test	
Well Fluid Type	01 Oil	
Formation	Dst 1 Burgff Sand (2560-2685)	
Start Test Date	2014/10/10	YYYY/MM/DD
Start Test Time	07:42:00	HH:mm:ss
Final Test Date	2014/10/10	YYYY/MM/DD
Final Test Time	15:53:00	HH:mm:ss

Test Results

Recovery:

15'	GIP			
15'	O	100% O	36 Gravity @ 60 Deg	
332	G w/ HOM	6 % G	37% O	57 % M
347'	Total Fluid			

Tool Sample: 10% G 30% O 60% M