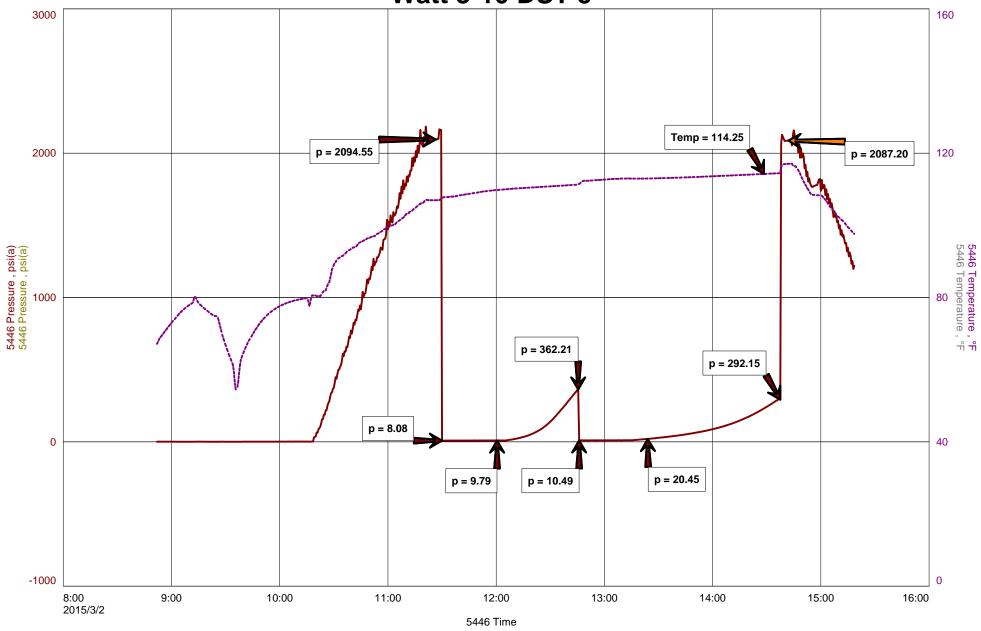
LD Drilling DST 5 Johnson 4370-4415 Start Test Date: 2015/03/02 Final Test Date: 2015/03/02 Watt 3-10 Formation: Johnson Job Number: W173

Watt 3-10 DST 5





# **Diamond Testing General Report**

Wilbur Steinbeck TESTER CELL: 620-282-1573

## **General Information**

**Company Name** LD Drilling

Contact Kim Shoemaker Job Number W173 Watt 3-10 Representative Wilbur Steinbeck **Well Name** DST 5 Johnson 4370-4415 Well Operator Unique Well ID LD **Surface Location** 10-16s-30w Lane/Kans Report Date 2015/03/02 Wilbur Steinbeck Field Wildcat Prepared By **Qualified By** Kim Shoemaker

## **Test Information**

Test Type Conventional Formation Johnson Well Fluid Type 01 Oil Test Purpose (AEUB) Initial Test

 Start Test Date
 2015/03/02 Start Test Time
 08:52:00

 Final Test Date
 2015/03/02 Final Test Time
 16:40:00

#### **Test Recovery**

Recovery 10' Slightly oil cut mud 2%O 985M

10' Total Fluid

Tool Sample Mud with oil spots



# DIAMOND TESTING P.O. Box 157 OISINGTON, KANSAS 6754

HOISINGTON, KANSAS 67544 (800) 542-7313

# **DRILL-STEM TEST TICKET**

FILE: Watt 3-10 DST 5

TIME ON: 8:52
TIME OFF: 16:40

Company   LD   Drilling   Contractor   LD   Co	•	LE: <u>vvall 3</u>	10 031 3				
Packarion	Company_LD Drilling		_Lease & Well No. Wa	att 3-10			
Date   3-2-15   Sec   10   Twp   16 S Range   30 W County   Lane   State   KANSAS   Test Approved by Kim Shoemaker   Diamond Representative   Willbur Steinbeck	Contractor_LD		_ Charge to LD Drilling	J			
Test Approved By Kim Showmake   Size Approved By Kim Showmake   Size Note   Size   S	Elevation 2728 KBFormation	Johnso	on Effective Pay		Ft. T	icket No	W173
Packer Depth	Date 3-2-15 Sec. 10 Twp.	16 S R	ange3	0 W County_	`Lan	eStat	e_KANSAS
Packer Depth	Test Approved By Kim Shoemaker		_ Diamond Representativ	re	Wilbur	Steinbeck	
Packer Depth	Formation Test No. 5 Interval Tested from	43	370 ft. to_	4415 ft. To	tal Depth		4415 ft.
Packer Depth   File   Size   6 3/4   in   Packer depth   Packer depth   File   Size   6 3/4   in   Packer depth   Packer Number   Packer					(8.00)	the second second	
Top Recorder Depth (Inside)   4366 ft.   Recorder Number   5446 Cap.   5000 P.S.I.			Packer depth		ft. Si	ze_ 6 3/4	in.
Top Recorder Depth (Inside)   4366 ft.   Recorder Number   5446 Cap.   5000 P.S.I.	Depth of Selective Zone Set						
Below Straddle Recorder Depth         ft         Recorder Number         Cap         P.S.I.           Mud Type         Chem         Viscosity         55         Drill Collar Length         0.ft. I.D.         2 1/4         in           Weight         9.5         Water Loss         9.5         cc         Weight Pipe Length         0.ft. I.D.         2 7/8         in           Chlorides         9.6 P.P.M.         Drill Pipe Length         4337 ft. I.D.         3 1/2         in           Jars: Make         STERLING         Serial Number         3800         Test Tool Length         33 ft. Tool Size         3 1/2-IF         in           Did Well Flow?         Yes         Reversed Out         No         Anchor Length         45 ft.         Size         4 1/2-IF         in           Main Hole Size         7 7/8         Tool Joint Size         4 1/2         in         Surface Choke Size         1 in         Bottom Choke Size 5/8         in           Blow: 1st Open: Built to 3 /4"         Surface blow         Built to 1/2"         Recovered         ft. of         Fries         Fr		4366 <sub>ft.</sub>	Recorder Number_	544	16 Cap	50	000 P.S.I.
Part		4371 <sub>ft.</sub>	Recorder Number_				000 P.S.I.
Mud Type	Below Straddle Recorder Depth	ft.	Recorder Number				P.S.I.
State   Stat			Drill Collar Length		<u>0</u> ft. I.D	. 2	1/4 in.
State   Stat	Weight9.5 Water Loss9.5	cc.	Weight Pipe Length_		0_ft.	)2	7/8 in
Did Well Flow?   Yes		P.P.M.	Drill Pipe Length	433	37 <sub>ft.</sub> 1.0	)3	1/2 in
Main Hole Size	Jars: Make STERLING Serial Number 38	300	Test Tool Length	3	3 <sub>ft.</sub> To	ol Size3	1/2-IF in
Surface blow   Built to 1 1/2"   Surface blow   Built to 1/2"   Built to 1/2"   Surface blow   Surface blow   Built to 1/2"   Surface blow   Surface blow   Built to 1/2"   Surface blow   Surface blow   Surface blow   Surface blow   Surface blow	Did Well Flow?YesReversed Out	No	Anchor Length	4	5 ft. Si	ze4	1/2-FH in
Recovered   10 ft. of   Slightly oil cut mud	Main Hole Size 7 7/8 Tool Joint Size 4 1	/2in.	Surface Choke Size_	1	_in. Bo	ottom Choke	Size_5/8_in
Recovered   10 ft. of   Slightly oil cut mud	Blow: 1st Open:Built to 1 1/2"		Surface blow	1			
Recovered	2nd Open: Built to 3/4"		Built to 1/2"				
Recovered	Recovered 10 ft. of Slightly oil cut mud						
Recovered         ft. of         Price Job           Recovered         ft. of         65 Miles RT         Other Charges           Remarks:         Insurance           Tool Sample Mud with oil spots         Total           Time Set Packer(s)         11:30         A.M. P.M. Time Started Off Bottom         14:30         A.M. P.M. Maximum Temperature         114           Initial Hydrostatic Pressure         (A)         2095 P.S.I.         Initial Flow Period         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.           Initial Closed In Period         Minutes         45 (D)         362 P.S.I.         20 P.S.I.           Final Flow Period         Minutes         45 (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period         Minutes         60 (G)         292 P.S.I.							
Recovered	Recovered ft. of						
Recovered ft. of Recovered ft. of Recovered ft. of Remarks: Other Charges           Remarks: Insurance           Tool Sample Mud with oil spots         Total           Time Set Packer(s) 11:30 P.M. Time Started Off Bottom P.M. Time Started Off Bottom P.M. Maximum Temperature 114         14:30 P.M. Maximum Temperature 114           Initial Hydrostatic Pressure R.M. Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 10 P.S.I.         8 P.S.I. to (C) 10 P.S.I.           Initial Closed In Period Minutes 45 (D) 362 P.S.I.         Minutes 45 (E) 10 P.S.I. to (F) 20 P.S.I.           Final Flow Period Minutes 60 (G) 292 P.S.I.         Minutes 292 P.S.I.							
Recoveredft. of					Price Jo	ob	
Total  Time Set Packer(s) 11:30 A.M. P.M. Time Started Off Bottom 14:30 A.M. P.M. Maximum Temperature 114  Initial Hydrostatic Pressure (A) 2095 P.S.I.  Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 10 P.S.I.  Initial Closed In Period Minutes 45 (D) 362 P.S.I.  Final Flow Period Minutes 45 (E) 10 P.S.I. to (F) 20 P.S.I.  Final Closed In Period Minutes 60 (G) 292 P.S.I.			CE Mile	s RT	Other C	harges	
Total           Time Set Packer(s)         11:30         A.M. P.M. Time Started Off Bottom         14:30         A.M. P.M. Maximum Temperature         114           Initial Hydrostatic Pressure         (A)         2095 P.S.I.         10 P.S.I.           Initial Flow Period         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.           Initial Closed In Period         Minutes         45 (D)         362 P.S.I.           Final Flow Period         Minutes         45 (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period         Minutes         60 (G)         292 P.S.I.	Remarks:	250000000000000000000000000000000000000			Insuran	ce	
Time Set Packer(s)         11:30         A.M. P.M.         Time Started Off Bottom         14:30         A.M. P.M.         Maximum Temperature         114           Initial Hydrostatic Pressure         (A)         2095 P.S.I.         2095 P.S.I.         Initial Flow Period.         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.           Initial Closed In Period.         Minutes         45 (D)         362 P.S.I.         20 P.S.I.           Final Flow Period.         Minutes         45 (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period.         Minutes         60 (G)         292 P.S.I.	Tool Sample Mud with oil spots						
Time Set Packer(s)         11:30         P.M.         Time Started Off Bottom         14:30         P.M.         Maximum Temperature         11:4           Initial Hydrostatic Pressure         (A)         2095 P.S.I.         2095 P.S.I.         Initial Flow Period         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.         10 P.S.I.         Initial Closed In Period         Minutes         45 (D)         362 P.S.I.         362 P.S.I.         20 P.S.I.         20 P.S.I.         20 P.S.I.         Final Closed In Period         Minutes         60 (G)         292 P.S.I.					Total		
Initial Flow Period         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.           Initial Closed In Period         Minutes         45 (D)         362 P.S.I.           Final Flow Period         Minutes         45 (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period         Minutes         60 (G)         292 P.S.I.		tarted Off Bo	ottom14:30		aximum Te	emperature _	114
Initial Flow Period         Minutes         30 (B)         8 P.S.I. to (C)         10 P.S.I.           Initial Closed In Period         Minutes         45 (D)         362 P.S.I.           Final Flow Period         Minutes         45 (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period         Minutes         60 (G)         292 P.S.I.	Initial Hydrostatic Pressure		(A)	2095 P.S.I.			
Initial Closed In Period         Minutes         45         (D)         362 P.S.I.           Final Flow Period         Minutes         45         (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period         Minutes         60         (G)         292 P.S.I.	To the second se		W W	8 <sub>P.S.I.</sub>	to (C)	1(	0_P.S.I.
Final Flow Period.         Minutes         45         (E)         10 P.S.I. to (F)         20 P.S.I.           Final Closed In Period.         Minutes         60         (G)         292 P.S.I.	Initial Closed In Period Minutes	45	(D)				
Final Closed In PeriodMinutes 60 (G) 292 P.S.I.	Final Flow Period	45			o (F)	20	)_P.S.I.
	Final Closed In PeriodMinutes	60	(G)		0) 9)		-15
Final Hydrostatic Pressure(H) 2087 P.S.I.			(H)	2087 <sub>P.S.I.</sub>			