

DIAMOND TESTING, LLC P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

. . .

molz24dst1

CompanyChieftain Oil Co	mpany, Inc.			_Lease &	Well No. Mo	lz No. 24			
Elevation 1386 GL Fo	rmation Misener				e Pay			. Ticket	No. K163
Date 9-1-14 Sec.	11 Twp.	35S	Range	40144	County		Stat		Kansas
Test Approved By		er	C	Diamond R	epresentative		Jasor	McLemo	re
Formation Test No1	Interval Teste	d from		5,171 _{ft. to}	о{	5,204 _{ft.}	Total De	oth	5,204 _{ft}
Packer Depth5,2					Packer Depth				
Packer Depth5,1		6 3/4	in.		Packer Depth				
Depth of Selective Zone S									
Top Recorder Depth (Insid	e)	5,152	ft.		Recorder Nur	nber	5513	Сар	5,000 psi.
Bottom Recorder Depth (O	utside)	5,153	ft.		Recorder Nur	nber	5588	Сар	6,000 psi.
Below Straddle Recorder D	Depth		_ft.		Recorder Nur	nber		Сар	psi.
Drilling Contractor Fossil E				Drill Col	lar Length		148	ft I.D	2 1/4 in.
Mud Type Chemical	Viscosity	54							in.
Weight9.5	Water Loss	12.0	cc.						<u> </u>
Chlorides3,8	<u>00 </u>	P.P.M.		Test Too	I Length		32	ft Tool Si	ze <u>3 1/2-IF</u> in.
Jars: Make Sterling	Serial Numl	ber6		Anchor	Length		33	ft. Size	4 1/2-FH in.
Did Well Flow? No F	Reversed Out	No		Surface	Choke Size_	1 _{in.}	Bottom	Choke Si	ze <u>^{5/8} in</u> .
				Main Ho	le Size	7 7/8_in	. Tool J	oint Size_	<u>4-FH</u> in.
Blow: 1st Open: Hit bridge 4 sta 2nd Open: N/A	nds off bottom. Pulle	d tool.		· · · · · · · · · · · · · · · · · · ·					
Recoveredft. of									
Recoveredft. of									
Recoveredft. of									
Recoveredft. of									
Recoveredft. of									
Recoveredft. of									
Time Set Packer(s)	Time	e Started of	ff Bottor	n	,	Maxim	um Tempe	erature	
Initial Hydrostatic Pressure		•••••	(A)		P.S.I				
Initial Flow Period	Minutes	0	(B)		P.S.I	. to (C)_		F	P.S.I.
Initial Closed In Period	Minutes	0	(D)_		<u> </u>	Ι.			
Final Flow Period	Minutes	0	(E)		P.S.I	to (F)_	······································		P.S.I.
Final Closed In Period	Minutes	0	(G)_	<u></u>	<u> </u>	•			
Final Hydrostatic Pressure.		•••••	(H)_		P.S.I				



Page 2 of 2 Pages

JASON MCLEMORE

CELL # 620-617-0527

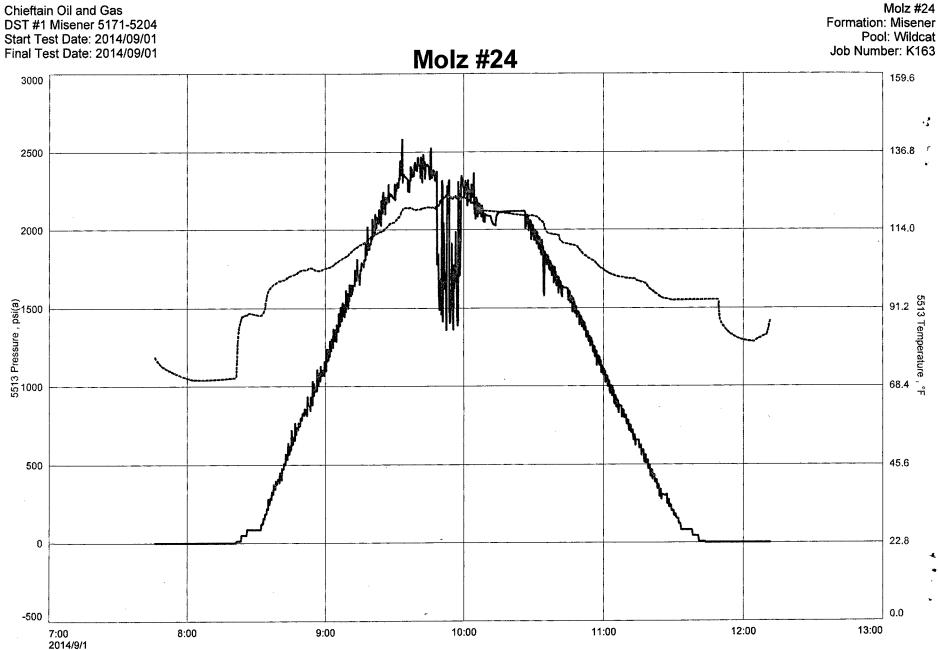
General Information

Company Name Contact Well Name Unique Well ID Surface Location Field Well Type	Molz #24 DST #1 Misener 5171-5204 11-35s-12w-Barber Wildcat		K163 Jason McLemore Chieftain Oil and Gas Jason McLemore Dave Barker 6
Test Information			
Test Type	01 Oil	Representative	Jason McLemore
Formation		Well Operator	Chieftain Oil and Gas
Well Fluid Type		Report Date	2014/09/01
Test Purpose (AEI		Prepared By	Jason McLemore
Start Test Date		Start Test Time	07:46:00
Final Test Date		Final Test Time	12:17:00

Test Results

Hit bridge 4 stands off bottom. Pulled tool.

,



5513-Time

NOMENCLATURE

÷

Ь	<u> </u>	Feet
b١	- Approximate Radius of Investigation (Net Pay Zone h ¹)	Feet
D.R.	💳 Damage Ratio	
ÉI	😑 Elevation	Feet
GD	B.T. Gauge Depth (From Surface Reference)	Feet
h	😑 Interval Tested	Feet
h1	— Net Pay Thickness	Feet
К	- Permeability	md
K١	Permeability (From Net Pay Zone h ¹)	md
m	— Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF ¹	- Maximum Indicated Flow Rate	MCF/D
OF ²	- Minimum Indicated Flow Rate	MCF/D
OF ³	- Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF ⁴	— Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D·
ps	Extrapolated Static Pressure	Psig.
PF	- Final Flow Pressure	Psig.
Рот	— Potentiometric Surface (Fresh Water*)	Feet
Q	- Average Adjusted Production Rate During Test	bbls/day
Q1		bbls/day
Q۶	Measured Gas Production Rate	MCF/D
R	- Corrected Recovery	bbls
r w	😑 Radius of Well Bore	Feet
t	- Flow Time	Minutes
t º	— Total Flow Time	Minutes
T	Temperature Rankine	. ¤R
z	😑 Compressibility Factor	.
U	— Viscosity Gas or Liquid	CP
Log	- Common Log	
	* Potentiometric Surface Reference to Rotary Table When Elevation Given, Fresh Water Corrected to 100° F.	Not



DIAMOND TESTING, LLC P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

molz24dst2

Company Chieftain Oil Comp				_Lease & W					K164
Elevation 1386 GL Forma		35S		Effective F 12W 0	-	D 1		14	NO
Date <u>9-1-14</u> Sec.			_Range_		County		State	McLemore	
Test Approved By			C	Diamond Rep	resentative				
Formation Test No2	Interval Tester	d from		<u>5,171</u> ft. to		5,204 _{ft.}	Total Dep	tht	5,204 _{ft}
Packer Depth 5,166		~ ~	/4_in.	Pa	cker Depth)			
Packer Depth 5,171		6 3/	/ <u>4</u> in.		cker Depth				
Depth of Selective Zone Set_	1618		_ft.						
Top Recorder Depth (Inside)		5,15	52 _{ft.}	Re	corder Nu	mber	5513	Сар	5,000 psi.
Bottom Recorder Depth (Outs	ide)	5,1	53 _{ft.}	Re	corder Nui	nber			6,000 _{psi.}
Below Straddle Recorder Dep	th		ft.	Re	corder Nu	nber			psi.
Drilling Contractor Fossil Drill	ing, Inc Rig 2	•		Drill Collar	Length		148 f	I.D.	2 1/4 in.
Mud Type Chemical	Viscosity	= 1							<u> </u>
	Water Loss		CC.						3 in.
Chlorides 3,800		P.P.M.							e_31/2-IF in.
Jars: Make Sterling	Serial Numb	oer	6						4 1/2-FH _{in.}
Did Well Flow? No Rev	ersed Out	No		Surface Ch					e <u> </u>
				Main Hole	Size	7 7/8 in			4-FH in.
Blow: 1st Open: 16 ft. of fill on botto 2nd Open: N/A Recovered ft. of Recovered ft. of Recovered ft. of									
Recoveredft. of									<u> </u>
Recoveredft. of									
Recoveredft. of									
Remarks_MISRUN!									
Time Set Packer(s)					·····		um Tempe	rature	÷
Initial Hydrostatic Pressure			• /						
Initial Flow Period		0				• /		P.:	S.I.
Initial Closed In Period	·		(D)		P.S.				
Final Flow Period		0						F	P.S.I.
Final Closed In Period					P.S.I				
Final Hydrostatic Pressure	••••••		(H)_		P.S.I	•			



Page 2 of 2 Pages

. . .

JASON MCLEMORE

CELL # 620-617-0527

General Information

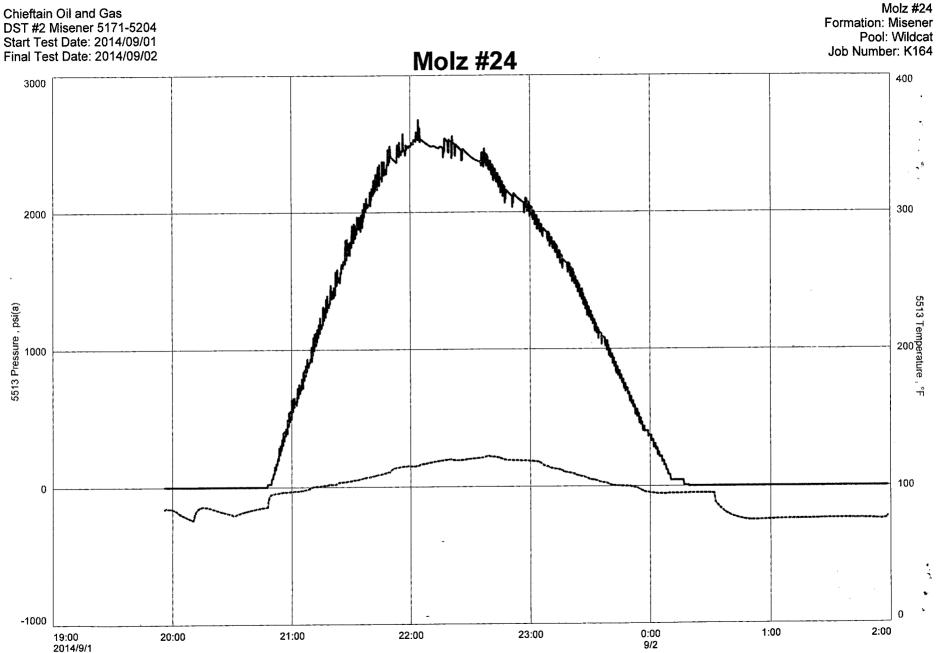
Company Name C	Chieftain Oil and Gas
Contact	Ron Molz Job Number K164
Well Name	Molz #24 Representative Jason McLemore
Unique Well ID	DST #2 Misener 5171-5204 Well Operator
Surface Location	11-35s-12w-Barber Prepared By Jason McLemore
Field	Wildcat Qualified By Dave Barker
Well Type	Vertical Test Unit 6
Test Information	
Test Type Formation Well Fluid Type Test Purpose (AEI	Representative Jason McLemore Drill Stem Test Well Operator Chieftain Oil and Gas Misener Report Date 2014/09/02 01 Oil Prepared By Jason McLemore JB) Initial Test
Start Test Date	2014/09/01 Start Test Time 19:56:00
Final Test Date	2014/09/02 Final Test Time 02:00:00

.

Test Results

16' of fill on bottom. Operator opted to look at it on the log. Pulled tool.

C:\Users\Roger Friedly\Desktop\molz24dst2 02-Sep-14



NOMENCLATURE

بالم المريدة

b	<u> </u>	Feet
b١	- Approximate Radius of Investigation (Net Pay Zone h ¹)	Feet
D.R.	Damage Ratio	·····
EI	<u> </u>	Feet
GD	<u> </u>	Feet
h	Interval Tested	Feet
h1	<u> </u>	Feet
к	😑 Permeability	md
Κ¹	<u> </u>	md
m	<u> </u>	psi/cycle
OF ¹	- Maximum Indicated Flow Rate	MCF/D
OF ²	- Minimum Indicated Flow Rate	MCF/D
OF3	= Theoretical Open Flow Potential with/Damage Removed Max	MCF/D
OF₄	— Theoretical Open Flow Potential with/Damage Removed Min	MCF/D
₽\$	<u> </u>	Psig.
PF	- Final Flow Pressure	Psig.
P °T	- Potentiometric Surface (Fresh Water*)	Feet
Q	- Average Adjusted Production Rate During Test	bbls/day
Q1	- Theoretical Production w/Damage Removed	bbls/day
Q9	<u> </u>	MCF/D
R	<u> </u>	bbls
r w	🚃 Radius of Well Bore	Feet
t	= Flow Time	Minutes
t o	💳 Total Flow Time	Minutes
T	= Temperature Rankine	¤R
z	<u> </u>	·····
U	- Viscosity Gas or Liquid	СР
Log	Common Log	
	* Potentiemetric Surface Deference to Determ. Telete Miles. El	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.