Сс	onfiden	tiality	y Requested:
	Yes		lo

### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1265816

Form ACO-1 November 2016 Form must be Typed Form must be Signed All blanks must be Filled

#### WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR         Permit #:           GSW         Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Spud Date orDate Reached TDCompletion Date orRecompletion DateRecompletion Date	County: Permit #:

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

# Submitted Electronically

KCC Office Use ONLY						
Confidentiality Requested						
Date:						
Confidential Release Date:						
Wireline Log Received Drill Stem Tests Received						
Geologist Report / Mud Logs Received						
UIC Distribution						
ALT I II III Approved by: Date:						

	Page Two	1265816
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INSTRUCTIONS: Show important tops of formations penetrated	Detail all cores Benort all final	copies of drill stems tests giving interval tested, time tool

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests T (Attach Additi			Yes No	[	Log	Formatio	n (Top), Dep	th and Datum	Sample	
Samples Sent to	Geological Surv	/ey	Yes No	1	Name			Тор	Datum	
Cores Taken Electric Log Run Geolgist Report / Mud Logs			Yes No Yes No Yes No							
List All E. Logs R	lun:									
		F	CASING Report all strings set	G RECORD		Used te, productio	on, etc.			
Purpose of Str		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.		etting Depth	Type of Cemen		Type and Percent Additives	
	I	I	ADDITIONA	L CEMENTING /	SQUEEZE	RECORD		I	l	
Purpose:		epth - Bottom	Type of Cement # Sacks		Jsed Type			e and Percent Additives		
Perforate Protect Ca Plug Back	тд									
Plug Off Zo	one									
1. Did you perform	a hydraulic fractur	ing treatment on th	nis well?		[	Yes	No (If N	lo, skip questions 2 an	nd 3)	
<ol> <li>Does the volume</li> <li>Was the hydrauli</li> </ol>		-	-			Yes Yes		lo, skip question 3) lo, fill out Page Three	of the ACO-1)	
Date of first Produc	_								· · · · · · <b>,</b>	
Injection:			Flowing	Pumping	Gas Lif	t 🗌 O	ther (Explain)			
Estimated Produc Per 24 Hours	tion	Oil Bbls.	Gas	Mcf	Water	Bb	bls.	Gas-Oil Ratio	Gravity	
DISPO	OSITION OF GAS:			METHOD OF COI	MPLETION:				ON INTERVAL:	
Vented	Sold Used	on Lease	Open Hole		Dually Comp.		mingled	Тор	Bottom	
(If vente	ed, Submit ACO-18.)			(3	ubmit ACO-5)	(Subr	nit ACO-4)			
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At		Acid,	Fracture, Sho (Amount and	t, Cementing Squeeze d Kind of Material Used)	Record	

Packer At:

TUBING RECORD:

Size:

Set At:

Form	ACO1 - Well Completion
Operator	RJM Company
Well Name	Howard 1
Doc ID	1265816

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	745	70/30	3% CC, 2% Gel.

# QUALITY OILWELL CEMENTING, INC.

1027-127

Federal Tax I.D.# 20-2886107

No. 1042 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 Finish State On Location County Sec. Twp. Range Date 9 - 19-9 3 006 22 Bartoin Location Urect Well No. # Lease Hav Owner To Quality Oilwell Cementing, Inc. Contractor Kr) t You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job Charge 745 14 T.D. Hole Size To . 51 Depth TLE Street Csg. State Tbg. Size Depth. City The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool 70 Cement Amount Ordered 200 S 21 Cement Left in Csg. Shoe Joint LIG ЬA Displace Meas Line EQUIPMENT Common Cementer No, Poż. Mix Pumptrk Helper 6.9 Driver No. U Gel. Bulktrk Driver Driver No. 1.1 Bulktrk Calcium Driver **JOB SERVICES & REMARKS** Hulls Salt. Remarks: Flowseal  $\mathbf{x}$ Rat Hole Kol-Seal Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 **Baskets** D/V or Port Collar Sand Handling Mileage 4 5 FLOAT EQUIPMENT Guide Shoe Centralizer Baskets m Dr AFU Inserts Float Shoe Latch Down p Rubbe Pumptrk Charge Mileage Tax Discount **Total Charge** Signature

QUALI	TY OILW	ELL CE al Tax I.D.# 20-2			MIT 2017 17 10
Phone 785-483-2025 Cell 785-324-1041		P.O. Box 32 Rus		No.	1633
Date 9-24-15 22	Twp. Range	Barton	State Ko	On Location	Finish
1	and the second	Location Great	Rend + Ju	LORA IE	as VaE
Lease Howard	Well No.	Owner	N15	1.00	
Contractor Royal 1		To Quality C	Nilwell Cementing, Inc. by requested to rent of helper to assist own	ementing equipment er or contractor to do	t and furnish o work as listed.
Hole Size	TD 3485	Charge Q	5mg Comp		
1000 0120			Sin Comp	<u> </u>	
Csg. UV. N. P.	Depth 34161	Street	3	State	- All Contractions
Tbg. Size 7 2 D.T.		City	as done to satisfaction an	the second se	agent or contractor.
Tool	Depth	The second se	ount Ordered 255	@/110 40L G	al 14H Eleser
Cement Left in Csg.	Displace H2all			<u> </u>	
Meas Line EQUIP		Common			1.1.1
No Cementer	0	Poz. Mix			1
A No Driver (2)	(AUIS	Gel.		en en el la com	1. are 1.
No. Driver Or		Calcium			8 (* 11 S
	REMARKS	Hulls			
2112.1	50 57	Salt			8 1 1 2 M 2
Remarks: <u>54167</u> Rat Hole 805 -	Sosx	Flowseal	an a		
Mouse Hole $4/25'$ -	106 Sx	Kol-Seal	x - X - X		
Centralizers 401 - 1	a sk (a) olyan	Mud CLR 48	es.	1 1 1 A	
Baskets Rathole W	1 20 52	G. C.	CD110 CAF 38		207
	e rel 10 5%	Sand		·	12 3
	6 91 10 5A	Handling	The second second	· · · · · ·	
Cenent dit (	Tircolate	Mileage	<u></u>		1 N.
CONSIGNO COND C	1100 1010	Miledge	FLOAT EQUIPME	NT	
		Guide Shoe			
		Centralizer			
		Baskets			1
		AFU Inserts	Vale a	a lana la	
		Float Shoe			16. S. 16
		Latch Down			
	ter and the second second	- 1- T	to define	NOX	. 1
	The server	1000	A res f	0	10 M
		Pumptrk Cha	arge	A	-
		Mileage		and I.	
	21 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			Tax	
8	and the second		10 <u>.</u>	Discount	
Signature Doug Bu	dia		en la factoria de la composición de la	Total Charge	
Signature NULLY D	and a		5		



# DRILL STEM TEST REPORT

Prepared For: RJM COMPANY

P.O. BOX 256 CLAFLIN ,KANSAS 67525-0256

ATTN: WYATT URBAN

### **HOWARD 1**

# 22-19S-13W BARTON

 Start Date:
 2015.09.22 @ 17:53:00

 End Date:
 2015.09.22 @ 00:00:00

 Job Ticket #:
 01237
 DST #:
 1

Eagle Testers 1309 Patton Road Great Bend, Kansas 67530 620-791-7394 **RJM COMPANY** 

	DRILL STEM TES	TRFP	ORT			
	RJM COMPANY			19S-13V		1
	P.O. BOX 256			WARD		
Great Boud, Ranzas	CLAFLIN , KANSAS 67525-0256		Job	Ticket: 01	1237	DST#:1
grous grand denna	ATTN: WYATT URBAN		Test	t Start: 20	015.09.22 @	17:53:00
GENERAL INFORMATION:						
Formation:KANSAS CITY 'A-F'Deviated:NoWhipstock:Time Tool Opened:08:29:00Time Test Ended:00:00:00	ft (KB)		Tes Tes Unit	ter: (	Conventional GENE BUDIG 1-0	Bottom Hole (Initial)
Interval:3166.00 ft (KB) To325Total Depth:3250.00 ft (KB) (TVIHole Diameter:7.88 inchesHole (KB)	))		Refe		evations: to GR/CF:	1849.00 ft (KB) 1843.00 ft (CF) 6.00 ft
TEST COMMENT: 1ST OPENING 1 1ST SHUT-IN 1 2ND OPENING 2	End Date: End Time:	E BLOW FO	R 8 MINUTES	D.: Btm: 2 Btm: 2 S ANBD E S AND DIEI	2015.09.22 @ 2015.09.22 @ DIED	jī 21:36:30
Pressure vs. Tin	ıe		Pf	RESSUF	RE SUMMA	ARY
DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRESARE DESPRE	9(3) Tompondare 100 100 100 100 100 100 100 10	Time (Min.) 0 1 16 31 32 52 67 68	Pressure (psia) 1620.78 66.81 68.30 85.01 67.01 75.93 95.27 1584.30	Temp (deg F) 102.64 102.37 102.73 102.90	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n static pw (1) ((1) pw (2) (2)
Recovery		 		1	s Rates	I
Length (ft) Description  15.00 DRILLING MUD	Volume (bbl) 0.21			Choke (i	inches) Pressur	e (psia) Gas Rate (Mcf/d)
Eagle Testers	Ref. No: 01237			Deine f = -!	2015.09.22 (	@ 22:40:40

t 🕞			DRI	LL STE	M TEST	REPO	RT	TOOL DIAGRAM			
			RJM CO	OMPANY			22-19S-13W BARTC	22-19S-13W BARTON			
			P.O. BC				HOWARD 1				
Great E	and R	aneas	CLAFL	IN , KANSAS 6	67525-0256		Job Ticket: 01237	DST#:1			
			ATTN:	WYATT URE	BAN		Test Start: 2015.09.22 @	0 17:53:00			
Tool Information	on		ļ								
Drill Pipe:	Length:	3166.00 ft	Diameter:	: 3.80 in	ches Volume:	44.41 bb	I Tool Weight:	2000.00 lb			
Heavy Wt. Pipe:	-	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bb	J				
Drill Collar:	Length:	0.00 ft	Diameter:	: 0.00 in	ches Volume:	0.00 bb	- 0	52000.00 lb			
Drill Pipe Above I	۲B <sup>.</sup>	20.00 ft			Total Volume:	44.41 bb		0.00 ft			
Depth to Top Pac		3166.00 ft					String Weight: Initial	45000.00 lb			
Depth to Bottom I		ft					Final	45000.00 lb			
Interval between		84.21 ft									
Tool Length:		104.21 ft									
Number of Packe	rs:	2	Diameter:	6.75 in	ches						
Tool Comments:											
TalDaarinti				O stal Na	Desition		A				
Tool Descriptio	on	Le	• • •	Serial No.	Position	/	Accum. Lengths				
Shut In Tool Hydraulic tool			5.00 5.00			3151.00 3156.00					
Top Packer			5.00			3161.00					
Packer			5.00			3166.00	20.00	Bottom Of Top Packer			
Anchor			5.00			3171.00		· ·			
Change Over Sul	b		0.75			3171.75					
			63.71			3235.46					
Drill Pipe			0.75			3236.21					
Drill Pipe Change Over Sul	b		0.70								
•	b		9.00			3245.21					
Change Over Sul	b			9119	Inside	3245.21 3245.21					
Change Over Sul Anchor	b		9.00	9119 9139	Inside Outside						

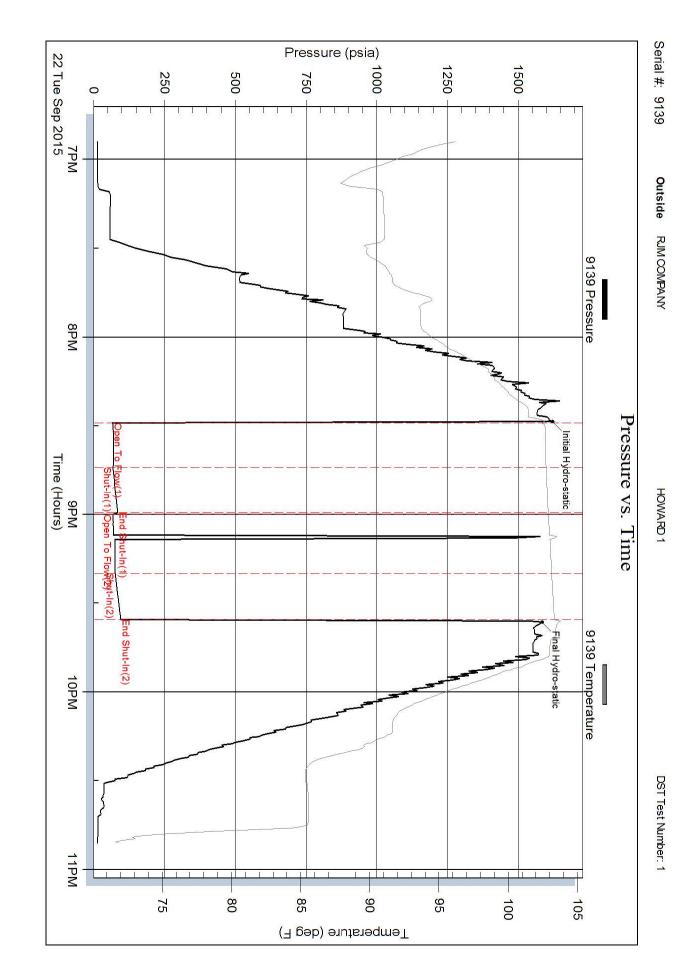
Total Tool Length: 104.21

<b>Bagles</b> <b>Hesters</b> <b>Grave Bands Kanne</b>		DRILL STEM TEST REPORT					FLUID SUMMARY	
		RJM CO	OMPANY		22-195-13	W BARTON		
		P.O. B(	P.O. BOX 256			1		
		CLAFLIN ,KANSAS 67525-0256 ATTN: WYATT URBAN			Job Ticket: (	)1237	DST#:1	
					Test Start: 2	2015.09.22 @ 1	7:53:00	
Mud and Cu	shion Information	ļ						
Mud Type: Ge	l Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	47.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	8.80 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure:		psia			
Salinity:	4000.00 ppm							
Filter Cake:	1.00 inches							
Recovery Inf	formation							
			Recovery Table					
	Leng		Description		Volume bbl			
		15.00	DRILLING MUD		0.210	2		
				040 661				
	Total Length:	15	.00 ft Total Volume: 0	.210 bbl				
	Total Length: Num Fluid Sam		.00 ft Total Volume: 0 Num Gas Bombs: 0	.210 001	Serial #	<u>.</u>		
	-	ples: 0		.210 001	Serial #	:		

Printed: 2015.09.22 @ 23:10:20

Ref. No: 01237







# DRILL STEM TEST REPORT

Prepared For: RJM COMPANY

P.O. BOX 256 CLAFLIN ,KANSAS 67525-0256

ATTN: WYATT URBAN

## **HOWARD 1**

# 22-19S-13W BARTON

 Start Date:
 2015.09.24 @ 11:09:00

 End Date:
 2015.09.24 @ 00:00:00

 Job Ticket #:
 01239
 DST #: 2

Eagle Testers 1309 Patton Road Great Bend, Kansas 67530 620-791-7394

<b>Eacle</b> >	DRILL STEM TES	I REP	UKI		
	RJM COMPANY		22-19	S-13W BAR1	ΓΟΝ
	P.O. BOX 256 CLAFLIN ,KANSAS 67525-0256			ARD 1	
Great Band, Kanaas				cket: 01239	DST#:2
	ATTN: WYATT URBAN		Test S	tart: 2015.09.24	4 @ 11:09:00
GENERAL INFORMATION:					
Formation:ARBUCKLEDeviated:NoWhipstock:Time Tool Opened:00:30:00Time Test Ended:00:00:00	ft (KB)		Test Ty Tester Unit No	GENE BU	onal Bottom Hole (Initial) IDIG
Interval:         3382.00 ft (KB) To         3           Total Depth:         3485.00 ft (KB) (T         3485.00 ft (KB) (T           Hole Diameter:         7.88 inchesHol			Refere	ence Elevations: KB to GR/CF:	1843.00 ft (CF)
	End Date: End Time:			m: 2015.09.2 m: DN BUCKET IN 7	
	50 MINUTES-NO BLOW BACK			SSURE SUN	IMARY
919 Pissue 170 000 To Family Set 1918 450 450 450 450 450 450 450 450	9H9 Kenpendare 110 100 90 90 90 90 90 90 90 90 90	Time (Min.) 0 1 31 76 77 121	(psia) (( 1771.17 1770.17 241.39 1213.40 249.59	Temp Annot deg F) 101.79 Initial Hy 101.77 Open T 101.99 Shut-In 105.25 End Shu 105.00 Open T 107.04 Shut-In	ydro-static o Flow (1) (1) ut-ln(1) o Flow (2)
Recovery			. —	Gas Rates	3
Length (ft) Description	Volume (bbl)			Choke (inches) Pr	essure (psia) Gas Rate (Mcf/d)
70.00 mud	0.98				
90.00 WATERY MUD 80 MUD 2					
150.00         MUDDY WATER 50 MUE           240.00         MUDDY WATER 40 MUE					
120.00 SLIGHTLY MUDDY WAT					
0.00 15 MUD 85 WATER	0.00				
Eagle Testers	Ref. No: 01239			Printed: 2015.09	24 @ 05:50:00

t 🚌		DRILL	STEM TE	S	T REPO	ORT					
		RJM COMPA	٧Y			2	2-195-13	N BAR	TON		
- Jesters		P.O. BOX 256				F	HOWARD 1				
amas	Bend Raneas	CLAFLIN, KANSAS 67525-0256				Job Ticket: 01239			DST	DST#:2	
		ATTN: WYATT URBAN			Test Start: 2015.09.24 @ 11:09:00						
GENERAL IN	NFORMATION:										
Formation: Deviated: Time Tool Open Time Test Ende		ft (	KB)			Т	ester:	Convent GENE BL 1	ional Bottom JDIG	Hole (Initial)	
<b>Interval:</b> Total Depth: Hole Diameter:	<b>3382.00 ft (KB) To 33</b> 3485.00 ft (KB) (T 7.88 inchesHole	/D)	-			F	eference El	evations: to GR/CF	1843.	00 ft (KB) 00 ft (CF) 00 ft	
Serial #: 91	39 Outside										
Press@RunDep Start Date: Start Time:		@ 3480.19 End Dat End Tim	e:	2	2015.09.24 06:41:30		calib.: Dn Btm:		.5000 2015.09 24 @ 01:49 24 @ 04:50	30	
	2ND OPENING 4 2ND SHUT-IN 6 Pressure vs. 1	0 MINUTES-NO			HE BOTTOM		PRESSU				
Ē	9139 Pressure	9139 Temperak	<u>re</u> 1 m	. †	Time	Pressur	e Temp	Anno			
1750		- A	- 10		(Min.) 0	(psia) 1767.69	(deg F) 101.86	   Initial H	lydro-static		
1500 -					2	93.83			Fo Flow (1)		
1250			- 10		31	239.49		Shut-In	ı(1)		
			- 95	_ <b>≓</b>	77	1213.40		End Sh			
			50	peretur	78 121	253.64 427.66		-	Γο Flow (2) ι(2)		
750				nperature (deg F)	180	1213.92		End Sh	iut-In(2)		
		+=0	- 75	5 5	181	1695.60	109.56	Final H	ydro-static		
4 Thu Sep 2015	34M Time (Hours)		GAM								
Recovery					Gas Rates						
Length (ft)	Length (ft) Description Vo					Choke (inches) Pressure (psia) Gas Rate (Mcf/					
70.00	mud		0.98								
90.00	WATERY MUD 80 MUD 2		1.26								
150.00	MUDDY WATER 50 MUD		2.10								
240.00	MUDDY WATER 40 MUD		3.37								
120.00 0.00	SLIGHTLY MUDDY WAT 15 MUD 85 WATER	EK	1.68								
0.00			0.00								
Eagle Tester	rs	Ref. No	: 01239	1			Printed	2015.09	9.24 @ 05:59	9.00	

			DRI	LL STE	MTEST	REPO	RT	TOOL DIAGRAM		
- Testers			RJM CC	OMPANY			22-19S-13W BARTON			
			P.O. BC				HOWARD 1			
Great E	and R	aneas	CLAFLI	IN , KANSAS (	67525-0256		Job Ticket: 01239	DST#:2		
			ATTN:	WYATT URE	BAN		Test Start: 2015.09.24 @	<u>መ</u> 11:09:00		
Tool Information	on		Į							
Drill Pipe:	Length:	3390.00 ft	Diameter:	3.80 in	ches Volume:	47.55 bbl	Tool Weight:	2000.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	Weight set on Packer	: 20000.00 lb		
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl		62000.00 lb		
Drill Pipe Above I	KB.	28.00 ft			Total Volume:	47.55 bbl		0.00 ft		
Depth to Top Pac		3382.00 ft					String Weight: Initial	45000.00 lb		
Depth to Bottom I		ft					Final	50000.00 lb		
Interval between		103.19 ft								
Tool Length:		123.19 ft								
Number of Packe	ers:	2	Diameter:	6.75 in	ches					
Tool Comments:										
Tool Description	on	Le	• • • •	Serial No.	Position	• • •	Accum. Lengths			
Shut In Tool			5.00			3367.00				
Hydraulic tool			5.00			3372.00				
Top Packer			5.00			3377.00				
Packer			5.00			3382.00	20.00	Bottom Of Top Packer		
Anchor			5.00			3387.00				
Change Over Sul	b		0.75			3387.75				
Drill Pipe			62.69			3450.44				
Change Over Sul	b		0.75			3451.19				
Anchor			29.00			3480.19				
Recorder			0.00	9119	Inside	3480.19				
Recorder			0.00	9139	Outside	3480.19				
Bullnose			5.00			3485.19	103.19	Anchor Tool		

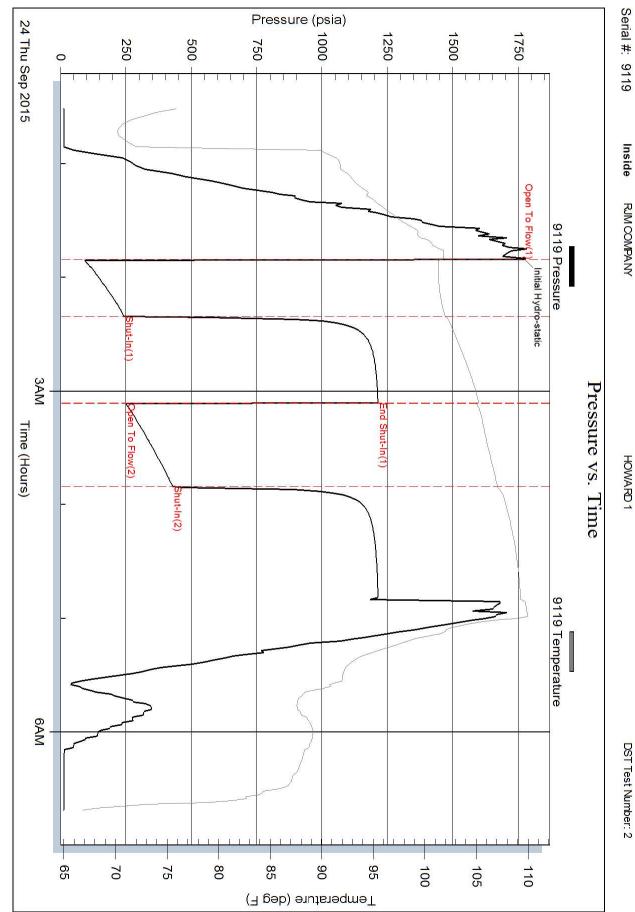
Total Tool Length: 123.19

	DRI	LL STEM TEST REPOR	Т	FLU	D SUMMAR		
	Г. С. RJM С	OMPANY	22-19S-13	W BARTON			
	Р.О. В	OX 256	HOWARD	1			
		IN ,KANSAS 67525-0256	Job Ticket: 01239 DST#:2				
gran Sand Ma	ATTN:	WYATT URBAN	Test Start: 2015.09.24 @ 11:09:00				
Mud and Cushion Info	ormation						
Mud Type: Gel Chem		Cushion Type:		Oil A PI:	deg API		
Mud Weight: 9.00 lk	b/gal	Cushion Length:	ft	Water Salinity:	ppm		
Viscosity: 48.00 s	sec/qt	Cushion Volume:	bbl				
Water Loss: 9.20 ir	n³	Gas Cushion Type:					
Resistivity: o	hm.m	Gas Cushion Pressure:	psia				
Salinity: 6000.00 p	ppm						
Filter Cake: 1.00 ir	nches						
Recovery Information	1						
		Recovery Table		_			
	Length ft	Description	Volume bbl				
	70.00	mud	0.982	2			
	90.00	WATERY MUD 80 MUD 20 WATER	1.26	-			
	150.00	MUDDY WATER 50 MUD 50 WATER	2.104	-			
	240.00	MUDDY WATER 40 MUD 60 WATER	3.36				
	120.00	SLIGHTLY MUDDY WATER	1.68	-			
	0.00	15 MUD 85 WATER	0.00	-			
	60.00	SLIGHTLY MUDDY WATER	0.842	-			
	0.00	10 MUD 90 WATER CHLORIDES 18000	0.00	<u>ן</u>			
Tot	tal Length: 730	0.00 ft Total Volume: 10.240 bb	I				
	m Fluid Samples: 0	Num Gas Bombs: 0	Serial #	:			
Nui	aratary Nama:	Laboratory Location:					
Lat	ooratory Name: covery Comments:	,					

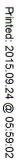


Ref. No: 01239

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DST Test Number: 2



Ref. No: 01239

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