KOLAR Document ID: 1530029

Confiden	tiality Re	quested:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL	HISTORY	· DESCRIPTIO	N 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.xxxxx) (e.gxxx.xxxxx)		
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:		
	Operator Name:		
	Lease Name: License #:		
Sourd Data or Data Data Data TD Completion Data or	Quarter Sec TwpS. R East West		
Recompletion Date Reached TD Completion Date of Recompletion 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:					

KOLAR Document ID: 1530029

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

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 Taken	Y	′es 🗌 No	[og Formatio	n (Top), Depth a	and Datum	Sample		
Samples Sent to Geolo	aical Survey		les No	1	Name	Э		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs	□ Y □ Y □ Y	és ☐ No és ☐ No és ☐ No							
		Rep	CASING ort all strings set-c	RECORD] Ne	w Used	on, etc.			
Purpose of String Size Hole Drilled			ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
[1		ADDITIONAL	CEMENTING /	SQU	EEZE RECORD				
Purpose:	Depth Top Bottom	Depth Type Top Bottom		# Sacks Use	d		Type and	Percent Additives		
Protect Casing Plug Back TD Plug Off Zone										
 Did you perform a hydra Does the volume of the Was the hydraulic fractu 	aulic fracturing treatme total base fluid of the uring treatment informa	ent on this v hydraulic fr ation submi	vell? acturing treatment tted to the chemic	exceed 350,000 al disclosure regi	gallo stry?	Nes Yes	 No (If No, s No (If No, s No (If No, f 	kip questions 2 ar kip question 3) ill out Page Three	nd 3) of the ACO-1)	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas Mcf			er Bb	ls.	Gas-Oil Ratio	Gravity	
DISPOSITION	N OF GAS:		METHOD OF			F COMPLETION:			PRODUCTION INTERVAL:	
Vented Sold (If vented, Subn	Used on Lease		Open Hole	_ Perf C <i>(S</i>	ually ubmit	Comp. Com ACO-5) (Subn	nit ACO-4)			
Shots Per Per Foot	foration Perfor Top Botte	ation om	Bridge Plug Type	Bridge Plug Set At	Ig Acid, Fracture, Shot (Amount and		Fracture, Shot, C (Amount and Ki	ementing Squeezend of Material Used)	Record	
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	Black Oak Exploration, LLC
Well Name	FRISBIE FAMILY 2-14 SWD
Doc ID	1530029

All Electric Logs Run

DUCP	
DIL	
BHCS	
MEL	

Form	ACO1 - Well Completion
Operator	Black Oak Exploration, LLC
Well Name	FRISBIE FAMILY 2-14 SWD
Doc ID	1530029

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	396	Common	225	3%CC
Production	7.875	5.5	15.5	5349	H-Con	475	3%CC



CEMENT	TRE	ATMEN	TREP	ORT	Sec. Sec.	and the second			
Cust	tomer:	Black Oak Exploration			Well:	Well: Frisbie Family # 2-14			ICT3788
City,	State:	Oakley I	٢s		County:		Rawlins KS	Date:	7/8/2020
Field	d Rep:				S-T-R:	S-T-R: 14/2S/36W			Surface
			<u>-</u>						
Dow	nhole	Informatio	on		Calculated S	Slurry - Lea	d	Calculated	Slurry - Tail
Hole	Size:	12.25	in		Blend:	н-:	325	Blend:	H-325
Hole D	Depth:	398	ft		Weight:	14.8	ppg	Weight:	14.8 ppg
Casing	y Size:	8 5/8	in Water / Sx: 6.9 gal / sx Water / Sx: 6.9						6.9 gal / sx
Casing I	Depth:	396.68	ft		Yield:	1.41	ft ³ / sx	Yield:	1.41 ft ³ / sx
Tubing /	Liner:		in		Annular Bbls / Ft.:	0.0735	bbs / ft.	Annular Bbis / Ft.:	0.0735 bbs / ft.
	Depth:		ft		Depth:	396.68	ft	Depth:	396.68 ft
Tool / Pa	acker:				Annular Volume:	29.2	bbls	Annular Volume:	29.2 bbls
Tool L	Depth:		ft		Excess:	120%		Excess:	120%
Displace	ment:	24.1	bbls		Total Slurry:	56.5	bbls	Total Slurry:	56.5 bbls
			STAGE	TOTAL	Total Sacks:	225	sx	Total Sacks:	255 sx
TIME	RATE	PSI	BBLs	BBLs	REMARKS	的神经。清			
610P			•	-	GOT TO LOCATION. R	IG WAS CIR	CULATING WITH DP ON B	оттом	
615P				-	SAFTEY MEETING				
620P				-	RIG UP TRUCKS				
620P				-	RIG STARTED WIPPEI	RRUN			
710P				·	FINISHED WIPPER RU	IN/ CIRCULA	TED ON BOTTOM 15 MIN		
730P				-	PULLED DP				
815P				-	RAN SURFACE CASIN	IG			And the second
915P				-	HOOKED UP SURFAC	E HEAD		•	
920P				-	GOT CIRCULATION				
927P	4.5	120.0	5.0	5.0	H20 AHEAD		-		
930P	2.0	300.0	56.5	61.5	MIXED 225 SKS OF H-	325 @ 396.6	8		
1000P	3.5	200.0	24.1	85.6	DISPLACED WITH HZU)		1. A set well a second of the second	
1007P				05.0					
10150				05.0	BICCED DOWN				
1010F				05.0 9E.C		CKET	*		
1020F				05.0 95.0	OFE LOCATION	GREI			
10401				85.6	OFFECCATION				
				85.6					
				85.6		an Malana and Anna an Anna an Anna Anna Anna A			
				85.6					
				85.6					
				85.6					
				85.6					
				85.6					
				85.6		•			
				85.6				and a second	
		CREW			UNIT			SUMMARY	
Cem	nenter:	Josh	Mosier		73		Average Rate	Average Pressure	Total Fluid
Pump Op	erator:	John	Polley		230		3.3 bpm	207 psi	86 bbls
В	ulk #1:	Kale	Ochs		205				
B	Bulk #2:								

Hurricane Services, Inc. 250 N. Water Wichita, KS 67202



CEMENT	r'TRE	ATMEN	IT REP	ORT		NOT THE WORK	Manager and State		Street States	
Cust	stomer: Black Oak Exploration Wells					Frisbie Family #2-14 Trekets ICT3846				
City,	State:				County:		Bawling KS			
Field	d Pon	Rick Po	n n		67.0		Rawlins KS Date: //19/2020			
A GOL FIGH	u nep.	KICK FU	hh		5-1-R:		14-25	-3077	Service:	Production
Downhole Information Calculate					Calculated	Slurry - Lea	ad		Gale	ulated Slurry - Tail
Hole	Size:	7 7/8	in		Blend:	H-	Con		Blend:	H-Long
Hole I	Depth:	5350	ft		Weight:	11.2	2 ppg		Weight:	14.8 ppg
Casing	g Size:	5 1/2	in		Water / Sx:	20.8	gal/sx		Water / Sx:	6.4 gal / sx
Casing I	Depth:	5353	ft		Yield:	3.27	ft ³ /sx		Yield:	1.45 ft ³ / sx
Tubing /	Liner:		in		Annular Bbls / Ft.:	0.0309) bbs / ft.		Annular Bbls / Ft.:	0.0309 bbs / ft.
	Depth:		ft		Depth:		ft		Depth:	ft
Tool / Pa	acker:				Annular Volume:	0.0	bbls		Annular Volume:	0 bbls
Tool I	Depth:		ft		Excess:				Excess:	
Displace	ment:	126.8	bbls		Total Slurry:	247.5	i bbls		Total Slurry:	25.8 bbls
			STAGE	TOTAL	Total Sacks:	425	sx		Total Sacks:	100 sx
TIME	RATE	PSI	BBLs	BBLs	REMARKS	The strength	STATISTICS IN	2016年166元		
8:00 AM			•	· · ·	Arrive on location					
8:05 AM					Safety meeting					
8:10 AM	10-97-1-P			•	Rig up pump and lines	5	en e			
10:54 AM		-		-	Casing on bottom. Ba	ul through @	g 400 psi			
11:00 AM	2.0	400.0	10.0	-	Circulate hole with rig	pump				
11:20 AM	3.0	100.0	29.0	10.0	Pump H20 anead	and rat hole				
11:22 AM	7.0	650.0	29.0	258.0	Mix 375 sks of H-Con	and rat hole				
11:40 AM	7.0	500.0	26.0	284.0	Mix 100 sks of H-L one					
11:45 AM	1.0	000.0	20.0	284.0	Release plug					
11:48 AM	7.0	700.0	127.0	411.0	Displace with H20					
12:05 PM				411.0	Plug landed, Final Lif	t @ 1600. Plu	ug lands @ 190	00		
12:10 PM			-	411.0	Release pressure. Flo	bat held	a interesting			
12:30 PM				411.0	Final wash up					
12:35 PM				411.0	Rig down pump and li	nes				
12:40 PM				411.0	Depart location					
				411.0						
				411.0	Approx 10 bbls of cen	nent to pit				
				411.0						
				411.0						
				411.0						
				411.0						
				411.0						
-				411.0						
				411.0						
				411.0						
THIS SHOW	NG Date	CREW	and mode	411.0	UNIT					
-	-	Dage			UNIT			- Data	SUMMAR	
Cen Puma Oa	enter:	Joch			78		Average	e Rate	Average Pressure	rotal Fluid
r ump Op	ulk #1	Kale			19//181		5.4	opin	470 psi	411 DDIS
B	ulk #2:	John			242					

Black Oak Exploration, LLC

WELL COMPARISON SHEET

Company: Black Oak Exploration, LLC 1474 S St Paul St Denver, CO 80210 Contact: Clayton Camozzi 303-968-4999 (Cell) Well: Frisbie Family 2-14 Location: 2220 FSL & 1250 FWL Sec. 14 - 2s - 36w Rawlins Co., KS Wellsite Geologist: Clay Elevation: 3318' GL 3323' KB Field: Wildcat API No: 15-153-21252-0000 Surface Casing: 8 5/8" set @ 396.68' KB

Wellsite Geologist: Clayton Camozzi Cell: (303) 968-4999

Drilling Contractor: Murfin Drilling Co Rig #7. Rig Phone (785-443-5616), Tool Pusher Arturo Cabezas (308-443-5616)

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
2' Uphole Correction	Black Oak	Exp, Frisb	ie Fami	y #2-14	Black Oak	Exploration	Frisbie Far	nily #1-14	Ritchie Exp	Ritchie Exp, Frisbie #1-15			
Drill Time vs E-logs	2220 FSL	& 1250 FW	L	-	2396 FSL	& 2970 FEL	Producer	-	2050 FSL & 1440 FEL Producer				
	Sec. 14 - 2	2s - 36w			Sec. 14 - 2	s - 36w	Stru	ctural	Sec. 15 - 2s	- 36w	Structural		
3323 KB			3320 KB		Relationship		3330 KB		Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Stone Corral	3205	118	3202	121	3196	124	-6	-3	3216	114	4	7	
Topeka	4043	-720	4044	-721	4036	-716	-4	-5	4049	-719	-1	-2	
Oread	4163	-840	4162	-839	4154	-834	-6	-5	4169	-839	-1	0	
Heebner	4208	-885	4208	-885	4199	-879	-6	-6	4212	-882	-3	-3	
Lansing	4258	-935	4258	-935	4249	-929	-6	-6	4264	-934	-1	-1	
Lansing D	4320	-997	4318	-995	4310	-990	-7	-5	4326	-996	-1	1	
Lansing G	4377	-1054	4377	-1054	4366	-1046	-8	-8	4381	-1051	-3	-3	
Lansing J	4464	-1141	4464	-1141	4454	-1134	-7	-7	4468	-1138	-3	-3	
BKC	4521	-1198	4526	-1203	4517	-1197	-1	-6	4535	-1205	7	2	
Pawnee	4614	-1291	4614	-1291	4609	-1289	-2	-2	4625	-1295	4	4	
Fort Scott	4649	-1326	4647	-1324	4643	-1323	-3	-1	4656	-1326	0	2	
Cherokee	4700	-1377	4703	-1380	4694	-1374	-3	-6	4713	-1383	6	3	
Mississippian	4920	-1597	4914	-1591									
Arbuckle	5102	-1779	5103	-1780									
Total Depth	5350	-2027	5350	-2027	4880	-1560			4855	-1525			

	DRILL STEM TES	T REP	ORT		
	Black Oak Exploration		14-2s-3	6w Rawlin I	KS
ESTING , INC	1474 S. St Paul St.		Frisbie	Family #2-1	14
	Denver Co 80210		Job Ticke	et: 66547	DST#: 1
NOK.	ATTN: Clayton Camozzi		Test Star	t: 2020.07.12 (@ 13:45:00
GENERAL INFORMATION:					
Formation:LKC " A "Deviated:NoWhipstock:Time Tool Opened:16:32:30Time Test Ended:21:22:39	ft (KB)		Test Type Tester: Unit No:	e: Conventior Ryan Nicho 71	nal Bottom Hole (Initial) ols
Interval: 4242.00 ft (KB) To 42	270.00 ft (KB) (TVD)		Reference	e ⊟evations:	3323.00 ft (KB)
Total Depth: 4242.00 ft (KB) (TN Hole Diameter: 7.88 inches Hole	/D) e Condition: Good			KB to GR/CF:	3318.00 ft (CF) 5.00 ft
Serial #: 8366 Outside Press@RunDepth: 163.23 psig Start Date: 2020.07.12 Start Time: 13:45:01	@ 4243.00 ft (KB) End Date: End Time:	2020.07.12 21:22:40	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2020.07.12 2020.07.12	8000.00 psig 2020.07.12 2 @ 16:32:10 2 @ 19:04:20
TEST COMMENT: 15 IF - Surface b 60 ISI - No return 15 FF - No blow 60 FSI - No retur	n				
Pressure vs. T	ine ⊽		PRES	SURE SUM	MARY
	acto respirate	Time (Min.)	Pressure Tei (psig) (de	mp Annotat gF)	tion
	- 130	0	2145.91 129	9.89 Initial Hyd	Iro-static
		15	163.17 129	9.29 Open 10 9.87 Shut-In(1)
		75	695.55 132	2.28 End Shut	-ln(1)
		91 75	159.14 132 163.23 132	2.06 Open To 2.65 Shut-In(2	Flow (2)
	y have the second secon	152	550.94 134	4.74 End Shut	-ln(2)
		153	2067.25 13	5.15 Final Hyd	lro-static
3934 (84 12 Sun Jul 2020 Time (Hous)	V 974				
Recovery				Gas Rates	
Length (ft) Description	Volume (bbl)		С	hoke (inches) Pres	sure (psig) Gas Rate (Mcf/d)
290.00 Mud 100%M	1.92				

	DRILL STEM TEST REPORT						
	Black Oak Exploration		14-2s-36w Raw	lin KS			
ESTING , INC	1474 S. St Paul St.		Frisbie Family	#2-14			
	Denver Co 80210		Job Ticket: 66547	DST#:1			
NOW.	ATTN: Clayton Camozzi		Test Start: 2020.0	7.12 @ 13:45:00			
GENERAL INFORMATION:							
Formation:LKC " A "Deviated:NoWhipstock:Time Tool Opened:16:32:30Time Test Ended:21:22:39	ft (KB)		Test Type: Conve Tester: Ryan Unit No: 71	entional Bottom Hole (Initial) Nichols			
Interval: 4242.00 ft (KB) To 42	270.00 ft (KB) (TVD)		Reference Elevatio	ns: 3323.00 ft (KB)			
Iotal Depth: 4242.00 ft (KB) (IN Hole Diameter: 7.88 inches Hole	/D) e Condition: Good		3318.00 ft (CF) KB to GB/CF 5.00 ft				
Serial #: 8353 Inside Press@RunDepth: psig Start Date: 2020.07.12 Start Time: 13:45:01	@ 4243.00 ft (KB) End Date: End Time:	2020.07.12 21:22:30	Capacity: Last Calib.: Time On Btm:	8000.00 psig 2020.07.12			
TEST COMMENT: 15 IF - Surface b 60 ISI - No returr 15 FF - No blow 60 FSI - No retur	n						
Pressure vs. T	fine	True	PRESSURE S	UMMARY			
220 200 170 170 170 170 170 170 170 1	KSC largeslare 10 10 10 10 10 10 10 10 10 10	Time (Min.) 0	Pressure Temp Ar (psig) (deg F) 1595.07 115.66 tool	opened here?			
Recovery			Gas Ra	ites			
Length (ft) Description	Volume (bbl)		Choke (inches)	Pressure (psig) Gas Rate (Mcf/d)			

10D		DRI	LL STEM TE		FLUID S	UMMARY			
家地		Black C	ak Exploration			14-2s-36w	Rawlin KS		
	ESTING , INC	1474 S.	. St Paul St.			Frisbie Fa	amily #2-14		
		Denver	Co 80210			Job Ticket: 6	6547	DST#:1	
NOW.		ATTN:	Clayton Camozzi			Test Start: 2	2020.07.12 @ 13	3:45:00	
Mud and C	ushion Information								
Mud Type: (Mud Weight: Viscosity:	Gel Chem 9.00 lb/gal 69.00 sec/qt 8.20 in3		Cushion Type Cushion Leng Cushion Volu	e: gth: ume:		ft bbl	Oil API: Water Salinity:		deg API ppm
Resistivity:	ohm.m		Gas Cushion	Pressure:		psig			
Salinity: Filter Cake:	600.00 ppm 2 00 inches								
Recovery I	nformation								
			Recovery 1	Table					
	Leng	th	Descriptio	on		Volume bbl			
		290.00	Mud 100%M			1.918	3		
	Total Length:	290.	00 ft Total Volu	ıme:	1.918 bbl				
	Num Fluid Samp	oles: 0	Num Gas	Bombs:	0	Serial #	ŧ		
	Laboratory Nan Recovery Com	ne: ments: too	Laborator I opened on bridge a	y Locatior bout half w	i: / ay in hole				
					-				
T N N N T			[NI 00547			Dista		07 10 51	

Printed: 2020.07.13 @ 07:16:51

Ref. No: 66547

Trilobite Testing, Inc



Frisbie Family #2-14

Outside

Black Oak Exploration

Printed: 2020.07.13 @ 07:16:51

Ref. No: 66547



	DRILL STEM TEST REPORT						
	Black Oak Exploration		14-2	2s-36w F	Rawlin KS		
ESTING , INC	1474 S. St Paul St.		Fris	sbie Far	nily #2-14		
	Denver Co 80210		Job	Ticket: 66	548	DST#:2	
	ATTN: Clayton Camozzi		Test	t Start: 20	20.07.13 @ ^	11:15:00	
GENERAL INFORMATION:							
Formation:LKC " D "Deviated:NoWhipstock:Time Tool Opened:13:34:00Time Test Ended:18:44:09	ft (KB)		Test Test Unit	t Type: C ter: F No: 7	Conventional Ryan Nichols 71	Bottom Hole	e (Reset)
Interval: 4280.00 ft (KB) To 43	51.00 ft (KB) (TVD)		Refe	erence Ee	vations:	3323.00	ft (KB)
Iotal Depth: 4351.00 ft (KB) (IN Hole Diameter: 7.88 inches Hole	/D) e Condition: Good			KB to	o GR/CF:	3318.00 5.00	ft (CF) ft
Sorial # 9266 Outside							
Press@RunDepth: 32.58 psig	@ 4281.00 ft (KB)		Capacity			8000.00	psig
Start Date: 2020.07.13	End Date:	2020.07.13	Last Calib	o.:	2	020.07.13	
Start Time: 11:15:01	End Time:	18:44:10	Time On I Time Off	Btm: 2 Btm: 2	2020.07.13 @ 2020.07.13 @) 13:33:50	
TEST COMMENT: 15 IF - 1/4" blow built to 1" 60 ISI - No return 20 FSI - Surface blow started @ 10 mins stayed at surface blow 90 FSI - No return							
Pressure vs. T	ĩme 		PF	RESSUR	E SUMMA	RY	
229 200 170 100 100 100 100 100 100 1	500 Vergonales 500 Vergonales 130 130 130 130 130 130 130 130	Time (Min.) 0 15 75 76 96 186 187	Pressure (psig) 2183.65 17.12 23.88 1079.70 24.03 32.58 1038.94 1787.95	Temp (deg F) 126.49 125.19 126.48 129.37 128.79 129.95 133.28 133.57	Annotation Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-	static w (1) 1) w (2) 2) static	
Recovery				Gas	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ir	nches) Pressure	(psig) Gas	Rate (Mcf/d)
Trilobite Testing, Inc	Ref. No: 66548			Printed:	2020.07.13 @	23:10:54	

	DRILL STEM TES	T REPO	RT			
	Black Oak Exploration		14-2s-36w Rawli	n KS		
ESTING, INC	1474 S. St Paul St.		Frisbie Family #	2-14		
	Denver Co 80210		Job Ticket: 66548	DST#:2		
MOR.	ATTN: Clayton Camozzi		Test Start: 2020.07.1	13 @ 11:15:00		
GENERAL INFORMATION:						
Formation:LKC " D "Deviated:NoWhipstock:Time Tool Opened:13:34:00Time Test Ended:18:44:09	ft (KB)		Test Type: Conven Tester: Ryan Ni Unit No: 71	tional Bottom Hole (Reset) chols		
Interval: 4280.00 ft (KB) To 43	51.00 ft (KB) (TVD)		Reference Elevations	:: 3323.00 ft (KB)		
Total Depth: 4351.00 ft (KB) (T	/D)	3318.00 ft (CF)				
				1. <u>5.00</u> ft		
Serial #: 8353 Inside			Ormersita	0000.00		
Press@RunDepth: psig Start Date: 2020 07 13	@ 4281.00 ft (KB) End Date:	2020 07 13	Capacity: Last Calib	8000.00 psig 2020.07.13		
Start Time: 11:15:01	End Time:	18:44:20	Time On Btm:	2020.01.10		
			Time Off Btm:			
TEST COMMENT: 15 IF - 1/4" blow 60 ISI - No return 20 FSI - Surface 90 FSI - No retur	built to 1" blow started @ 10 mins stayed at n	surface blow				
Pressure vs. T	ime □		PRESSURE SU	MMARY		
2000 100 1000 1	553 Tempendure 553 Tempendure 553 Tempendure 153 153 153 153 153 155 155 155	Time F (Min.)	Pressure Temp Anno (psig) (deg F)	otation		
Recovery			Gas Rate	s		
Length (ft) Description	Volume (bbl)		Choke (inches) F	Pressure (psig) Gas Rate (Mcf/d)		
15.00 Mud w /oil spots in tool 10	0.07 0.07					
* Recovery from multiple tests	ļļ					

+								
1005		DRI	LL STEM TEST R	EPORT	Γ	I	FLUID S	UMMARY
	TRILOBITE	Black (Dak Exploration		14-2s-36w	Rawlin KS		
	ESTING, IN	1474 S	. St Paul St.		Frisbie Fa	mily #2-14		
		Deriver	00 002 10		Job Ticket: 6	6548	DST#: 2	
		ATTN:	Clayton Camozzi		Test Start: 20	020.07.13 @ 11	1:15:00	
Mud and C	ushion Information							
Mud Type: 0	Gel Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	68.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	6.40 in ³		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure:		psig			
Salinity: Filtor Cake:	600.00 ppm 2.00 inches							
Recovery I	normation		Recovery Table					
	Ler	ath	Description		Volume	1		
		t	Description		bbl			
		15.00	Mud w /oil spots in tool 100%M		0.074			
	Total Length:	15	.00 ft Total Volume:	0.074 bbl				
	Num Fluid Sar	nples: 0	Num Gas Bombs:	0	Serial #:			
	Laboratory N	ame:	Laboratory Location	:				
	Recovery Col	nments:						

Printed: 2020.07.13 @ 23:10:54

Ref. No: 66548



Printed: 2020.07.13 @ 23:10:54

Ref. No: 66548

Trilobite Testing, Inc



Frisbie Family #2-14

Serial #: 8353

Inside

Black Oak Exploration

	DRILL STEM TES	T REP	ORT			
	Black Oak Exploration		14-2	2s-36w R	Rawlin KS	;
ESTING , INC	1474 S. St Paul St.		Fris	bie Fan	nily #2-14	
	Denver Co 80210		Job ⁻	Ticket: 66	549	DST#: 3
MON.	ATTN: Clayton Camozzi		Test	Start: 202	20.07.14 @ 0	06:11:00
GENERAL INFORMATION:						
Formation:LKC " G "Deviated:NoWhipstock:Time Tool Opened:08:22:50Time Test Ended:13:53:00	ft (KB)		Test Test Unit I	Type: C er: R No: 7	conventional Ayan Nichols 1	Bottom Hole (Reset)
Interval: 4354.00 ft (KB) To 44 Total Depth: 4451.00 ft (KB) (The second s	Reference Elevations:3323.00 ft (KB)3318.00 ft (CF)				3323.00 ft (KB) 3318.00 ft (CF)	
Hole Diameter: 7.88 inches Hole	e Condition: Good			KB to	GR/CF:	5.00 ft
Serial #: 8366 Outside Press@RunDepth: 642.40 psig Start Date: 2020.07.14 Start Time: 06:11:01 TEST COMMENT: 5 IF - BoB @ 2 m 60 ISI - No return	@ 4355.00 ft (KB) End Date: End Time:	2020.07.14 13:53:00	Capacity: Last Calib Time On E Time Off F	o.: 3tm: 2 Btm: 2	2 020.07.14 @ 020.07.14 @	8000.00 psig 020.07.14 0 08:22:40 0 11:22:30
55 FF - BoB @ 4 60 FSI - No retur	, mins n					
Pressure vs. 1	ime T 3300 Iemperature	Time	PR		E SUMMA	ARY
220	10	(Min.) 0	(psig) 2228.11	(deg F) 125.26	Initial Hydro-	-static
	130	1	119.21 251.02	124.96 147.77	Open To Flo Shut-In(1)	ow (1)
		65	647.83	143.35	End Shut-In	(1)
		66 119	261.71	143.23	Open To Flo	ow (2)
2000 700 500		180 180	645.56 2007.16	149.56 150.42	End Shut-In Final Hydro-	(2) static
200 () () () () () () () () () (70					
Recovery			I I	Gas	Rates	
Length (ft) Description	Volume (bbl)			Choke (in	ches) Pressure	e (psig) Gas Rate (Mcf/d)
60.00 WCM - 30%M - 70%W	0.30			-		
995.00 MCW - 5%M - 95%W	12.35					
356.00 MCW - 50%M - 50%W	4.99					
* Recovery from multiple tests	-					

	DRILL STEM TES	DRILL STEM TEST REPORT					
	Black Oak Exploration		14-2s-36w R	awlin KS			
ESTING , INC	1474 S. St Paul St. Denver Co 80210		Frisbie Fam	nily #2-14	2		
	ATTN [.] Clavton Camozzi		Test Start: 202	20 07 14 @ 06·11·00	3		
GENERAL INFORMATION:							
Deviated: No Whipstock: Time Tool Opened: 08:22:50 Time Test Ended: 13:53:00	ft (KB)		Test Type: Co Tester: Ry Unit No: 71	onventional Bottom He yan Nichols 1	ole (Reset)		
Interval:4354.00 ft (KB) To44Total Depth:4451.00 ft (KB) (ThHole Diameter:7.88 inchesHole	101.00 ft (KB) (TVD) /D) e Condition: Good	Reference Elevations: 3323.00 ft (KB) 3318.00 ft (CF) KB to GR/CF: 5.00 ft					
Serial #: 8353 Inside Press@RunDepth: psig Start Date: 2020.07.14 Start Time: 06:11:01 TEST COMMENT: 5 IF - BoB @ 2 m 60 ISI - No return 55 FF - BoB @ 4 60 FSI - No return 55 IF - No return	@ 4355.00 ft (KB) End Date: End Time: nins mins n	2020.07.14 13:53:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 2020.07.14) psig 4		
Pressure vs. T	ime		PRESSURE	E SUMMARY			
250 Presure 200 100 100 100 100 100 100 100	553 (expender 553 (e	Time (Min.)	Pressure Temp (psig) (deg F)	Annotation			
Recovery			Gas	Rates			
Length (ft) Description 60.00 WCM - 30%M - 70%W 995.00 MCW - 5%M - 95%W 356.00 MCW - 50%M - 50%W	Volume (bbl) 0.30 12.35 4.99		Choke (inc	ches) Pressure (psig) (Gas Rate (Mcf/d)		

10D		DRI	LL STEM TEST REPORT	-	I	FLUID SU	JMMARY
	<u>I RILOBITE</u>	Black C	Dak Exploration	14-2s-36w	Rawlin KS		
	ESTING , INC	1474 S	. St Paul St.	Frisbie Fa	mily #2-14		
		Denver	Co 80210	Job Ticket: 6	6549	DST#: 3	
NOW		ATTN:	Clayton Camozzi	Test Start: 2	2020.07.14 @ 06	6:11:00	
Mud and C	Cushion Information						
Mud Type:	Gel Chem		Cushion Type:		Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
Viscosity:	64.00 sec/qt		Cushion Volume:	bbl			
Water Loss:	6.80 in ³		Gas Cushion Type:				
Resistivity:	ohm.m		Gas Cushion Pressure:	psig			
Salinity: Filter Cake:	600.00 ppm 2.00 inches						
Recovery	Information						
			Recovery Table		_		
	Leng ft	th	Description	Volume bbl			
		60.00	WCM - 30%M - 70%W	0.295	5		
		995.00	MCW - 5%M - 95%W	12.354	1		
		356.00	MCW - 50%M - 50%W	4.994	1		
	Total Length:	1411	00 ft Total Volume: 17.643 bbl				
	Num Fluid Samp	oles: 0	Num Gas Bombs: 0	Serial #	:		
	Laboratory Nan	ne:	Laboratory Location:				
	Recovery Com	ments: RV	V = .735 @ 66 DEG F				
		CH	ILORIDES = 120,000 PPM				

Printed: 2020.07.14 @ 14:46:41

Ref. No: 66549

Trilobite Testing, Inc



Frisbie Family #2-14

DST Test Number: 3

Serial #: 8366 Outside Black Oak Exploration

Printed: 2020.07.14 @ 14:46:42

Ref. No: 66549

Trilobite Testing, Inc



Black Oak Exploration

Inside

Serial #: 8353

Frisbie Family #2-14

	DRILL STEM TES	DRILL STEM TEST REPORT						
	Black Oak Exploration		14-2	2s-36w F	Rawlin KS			
ESTING , INC	1474 S. St Paul St.		Fris	bie Far	nily #2-14			
	Denver Co 80210		Job T	Ticket: 66	550	DST#:4		
NOK.	ATTN: Clayton Camozzi		Test	Start: 20	20.07.14 @ 23:	36:00		
GENERAL INFORMATION:								
Formation:LKC " H "Deviated:NoWhipstock:Time Tool Opened:01:49:50Time Test Ended:06:21:30	ft (KB)		Test Teste Unit M	Type: C er: F No: 7	Conventional Bo Ryan Nichols 71	ttom Hole	e (Reset)	
Interval: 4410.00 ft (KB) To 44	I36.00 ft (KB) (TVD)		Refe	rence Ee	vations: 3	323.00	ft (KB)	
Total Depth: 4436.00 ft (KB) (T Hole Diameter: 7.88 inchesHole	/D) e Condition: Good			KB te	o GR/CF:	318.00 5.00	ft (CF) ft	
Serial #: 8366 Outside Press@RunDepth: 20.30 psig	@ 4411.00 ft (KB)		Capacity:		8	000.00	psig	
Start Date: 2020.07.14	End Date:	2020.07.15	Last Calib	.:	202	0.07.15		
Start Time: 23:36:01	End Time:	06:21:30	Time On B Time Off F	Stm: 2 Stm: 2	2020.07.15 @ 0 2020 07 15 @ 0	1:49:40 4·14·50		
TEST COMMENT: 15 IF - 1" blow b 60 ISI - No returr 10 FF - No blow 60 FSI - No retur	uilt to 1 1/4" 1 n				-			
Pressure vs. T	ime ™		PR	ESSUR	E SUMMAR	Y		
2000 1000	500 Temperature 40 40 40 40 40 40 40 40 40 40	Time (Min.) 0 15 75 75 86 145 145	Pressure (psig) 2262.02 17.85 20.29 787.55 20.23 20.30 574.55 2212.52	Temp (deg F) 129.38 128.47 130.54 134.24 133.86 134.44 137.28 137.87	Annotation Initial Hydro-sta Open To Flow Shut-In(1) End Shut-In(1) Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-sta	atic (1) (2) atic		
Recovery				Gas	s Rates			
Length (ft) Description 5.00 Mud w /oil spots in tool 10	Volume (bbl)			Choke (ir	nches) Pressure (p	sig) Gas	Rate (Mcf/d)	
* Recovery from multiple tests	 							
Trilobite Testing, Inc	Ref. No: 66550	I		Printed:	2020.07.15 @ (08:29:06		

	DRILL STEM TES	T REPO	DRT			
	Black Oak Exploration		14-2s-36w	Rawlin I	KS	
ESTING , INC	1474 S. St Paul St.		Frisbie Fa	amily #2-1	14	
	Denver Co 80210		Job Ticket: 6	66550	DST#:4	
NOK.	ATTN: Clayton Camozzi		Test Start: 2	2020.07.14 (@ 23:36:00	
GENERAL INFORMATION:						
Formation:LKC " H "Deviated:NoWhipstock:Time Tool Opened:01:49:50Time Test Ended:06:21:30	ft (KB)		Test Type: Tester: Unit No:	Conventior Ryan Nicho 71	nal Bottom Hole (Reset) bls	
Interval: 4410.00 ft (KB) To 44	36.00 ft (KB) (TVD)		Reference E	evations:	3323.00 ft (KB)	
Total Depth: 4436.00 ft (KB) (T Hole Diameter: 7 88 inches Hole	/D) • Condition [.] Good	3318.00 ft (CF) KB to CB/CE: 5.00 ft				
Serial #: 8353 Inside	@ 4411.00 ft (KP)		Canacity		8000.00 paig	
Start Date: 2020.07.14	End Date:	2020.07.15	Last Calib.:		2020.07.15	
Start Time: 23:36:01	End Time:	06:21:30	Time On Btm:			
			Time Off Btm:			
TEST COMMENT: 15 IF - 1" blow b 60 ISI - No return 10 FF - No blow 60 FSI - No return	uilt to 1 1/4" ı n					
Pressure vs. T	ime		PRESSU	IRE SUM	MARY	
8363 Ressure	8363 Temperature 140	Time (Min.)	Pressure Temp	Annotat	tion	
2000	130	(10111.)				
	100 million (Ger F) 50 million (
15 Wed 34M Jul 2020 Time (Hours)	GAM					
Recovery			G	as Rates		
Length (ft) Description	Volume (bbl)		Choke	(inches) Pres	sure (psig) Gas Rate (Mcf/d)	
5.00 Mud w /oil spots in tool 10	0.02 0.02					
* Recovery from multiple tests						

	DRI	LL STEM TEST REPORT	-	l		UMMARY
	Black C	Dak Exploration	14-2s-36w	Rawlin KS		
ESTING, INC	1474 S Denver	. St Paul St. Co 80210	Frisbie Fa Job Ticket: 6	mily #2-14 6550	DST#:4	
NOR .	ATTN:	Clayton Camozzi	Test Start: 2	020.07.14 @ 23	3:36:00	
Mud and Cushion Information						
Mud Type: Gel Chem		Cushion Type:		Oil API:		deg API
Mud Weight: 9.00 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
Viscosity: 58.00 sec/qt		Cushion Volume:	bbl	2		
Water Loss: 6.80 in ³		Gas Cushion Type:				
Resistivity: ohm.m		Gas Cushion Pressure:	psig			
Salinity: 600.00 ppm						
Filter Cake: 2.00 inches						
Recovery Information						
		Recovery Table		_		
Leng ft	th	Description	Volume bbl			
	5.00	Mud w /oil spots in tool 100%M	0.025	5		
Total Length:	5.	.00 ft Total Volume: 0.025 bbl				
Num Fluid Samp	oles: 0	Num Gas Bombs: 0	Serial #:			
Laboratory Nan	ne:	Laboratory Location:				
Recovery Com	ments:	, ,				

Printed: 2020.07.15 @ 08:29:07

Ref. No: 66550

Trilobite Testing, Inc



Frisbie Family #2-14

DST Test Number: 4

Outside

Printed: 2020.07.15 @ 08:29:07

Ref. No: 66550

Trilobite Testing, Inc



Frisbie Family #2-14

DST Test Number: 4

Inside

Black Oak Exploration

	DRILL STEM TES	T REP	ORT				
	Black Oak Exploration		14-2	2s-36w F	Rawlin KS	;	
ESTING , INC	1474 S. St Paul St.		Fris	bie Fan	nily #2-14		
	Denver Co 80210		Job ⊺	Ticket: 66	651	DST#: 5	
NOK.	ATTN: Clayton Camozzi		Test	Start: 20	20.07.15 @	15:43:00	
GENERAL INFORMATION:							
Formation:LKC " J "Deviated:NoWhipstock:Time Tool Opened:18:06:40Time Test Ended:22:50:09	ft (KB)		Test Teste Unit I	Type: C er: F No: 7	Conventional Ryan Nichols ′1	Bottom Hole	e (Reset)
Interval: 4433.00 ft (KB) To 44	180.00 ft (KB) (TVD)		Refe	erence ⊟e	vations:	3323.00	ft (KB)
Total Depth:4480.00 ft (KB) (TVHole Diameter:7.88 inchesHole	/D) e Condition: Good			KB to	GR/CF:	3318.00 5.00	ft (CF) ft
Serial #: 8366 Outside							
Press@RunDepth: 21.48 psig	@ 4434.00 ft (KB)		Capacity:			8000.00	psig
Start Date: 2020.07.15	End Date:	2020.07.15	Last Calib).:	2	2020.07.15	
Start Time: 15:43:01	End Time:	22:50:10	Time On E Time Off E	3tm: 2 Btm: 2	:020.07.15 @ :020.07.15 @) 18:06:30) 20:21:39	
TEST COMMENT: 15 IF - 1/4" blow 45 ISI - No return 15 FF - No blow 60 FSI - No retur	n flushed tool, no blow n						
Pressure vs. T	ime 		PR	RESSUR	E SUMMA	ARY	
500 Piceure 200 100 100 100 100 100 100 100	Some Transportance	Time (Min.) 0 1 15 60 61 76 135 136	Pressure (psig) 2289.08 17.01 19.44 964.58 20.21 21.48 1003.58 2235.99	Temp (deg F) 127.80 126.78 129.35 131.82 131.40 132.19 134.41 134.88	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n -static bw (1) (1) bw (2) (2) -static	
Recovery				Gas	Rates	<u> </u>	
5.00 Mud w /oil spots in tool 10	Volume (bbl)			Choke (ir	ncnes) Pressur	e (psig) Gas	Rate (Mcf/d)
* Recovery from multiple tests							
Trilobite Testing, Inc	Ref. No: 66651	1		Printed:	2020.07.16 (@ 08:04:15]

	DRILL STEM TES	T REPC	DRT			
	Black Oak Exploration		14-2s-36w	Rawlin	KS	
ESTING, INC	1474 S. St Paul St. Denver Co 80210		Frisbie Fa	mily #2-	14	
			Job Ticket: 6	6651	DST#	:5
NOW.	ATTN: Clayton Camozzi		Test Start: 2	020.07.15	@ 15:43:00	
GENERAL INFORMATION:						
Formation:LKC " J "Deviated:NoWhipstock:Time Tool Opened:18:06:40Time Test Ended:22:50:09	ft (KB)		Test Type: Tester: Unit No:	Conventio Ryan Nich 71	nal Bottom H iols	ole (Reset)
Interval: 4433.00 ft (KB) To 44	80.00 ft (KB) (TVD)		Reference E	levations:	3323.0	0 ft (KB)
Total Depth: 4480.00 ft (KB) (The Hole Diameter: 7.88 inches Hole	/D)		KB		3318.0	0 ft(CF)
	Condition. Good		ND	IU GRUCF.	5.0	U II
Serial #: 8353 Inside						
Press@RunDepth: psig	@ 4434.00 ft (KB) End Date:	2020 07 15	Capacity: Last Calib :		8000.0 2020 07 1	0 psig 5
Start Time: 15:43:01	End Time:	22:50:10	Time On Btm:		2020.07.1	0
			Time Off Btm:			
TEST COMMENT: 15 IF - 1/4" blow 45 ISI - No returr 15 FF - No blow 60 FSI - No retur	i flushed tool, no blow n					
Pressure vs. 7	ine		PRESSU	RE SUM	MARY	
500 Prosure 700 700 700 700 700 700 700 70	533 temponare 130 100 100 100 100 100 100 100	Time (Min.)	Pressure Temp (psig) (deg F)	Annota	ation	
Recovery			Ga	as Rates		
Length (ft) Description	Volume (bbl)		Choke	(inches) Pre	ssure (psig)	Gas Rate (Mcf/d)
5.00 Mud w /oil spots in tool 10	0.02		-		ł	

10D		DRI	LL STEM TEST REPORT	Γ			UMMARY
	LEODITE	Black (Dak Exploration	14-2s-36w	Rawlin KS		
	ESTING, IN	C 1474 S Denver	6. St Paul St. r Co 80210	Frisbie Fa Job Ticket: 6	mily #2-14 6651	DST#: 5	
NOV .		ATTN:	ATTN: Clayton Camozzi		020.07.15 @ 1	5:43:00	
Mud and C	Cushion Information	 ו					
Mud Type:	Gel Chem		Cushion Type:		Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
Viscosity:	62.00 sec/qt		Cushion Volume:	bbl	,		
Water Loss:	6.80 in³		Gas Cushion Type:				
Resistivity:	ohm.m		Gas Cushion Pressure:	psig			
Salinity:	700.00 ppm						
Filter Cake:	2.00 inches						
Recovery	Information						
			Recovery Table		_		
	Le	ngth ft	Description	Volume bbl			
		5.00	Mud w /oil spots in tool 100%M	0.025			
	Total Length:	5	.00 ft Total Volume: 0.025 bbl				
	Num Fluid Sa	mples: 0	Num Gas Bombs: 0	Serial #:			
	Laboratory N	ame:	Laboratory Location:				
	Recovery Co	mments:					

Printed: 2020.07.16 @ 08:04:15

Ref. No: 66651





Outside Black Oak Exploration

Printed: 2020.07.16 @ 08:04:15

Ref. No: 66651

Trilobite Testing, Inc



Black Oak Exploration

Inside

Frisbie Family #2-14

	DRILL STEM TES	T REP	ORT				
	Black Oak Exploration		14-	2s-36w I	Rawlin KS		
ESTING , INC	1474 S. St Paul St.		Fri	sbie Far	nily #2-14		
	Denver Co 80210		Job	Ticket: 66	652	DST#:6	
	ATTN: Clayton Camozzi		Tes	t Start: 20	20.07.16 @ 2	23:27:00	
GENERAL INFORMATION:							
Formation:Ft. ScottDeviated:NoWhipstock:Time Tool Opened:01:45:40Time Test Ended:05:44:50	ft (KB)		Tes Tes Unit	t Type: 0 ter: F No: 7	Conventional Ryan Nichols 71	Bottom Hole	e (Reset)
Interval: 4630.00 ft (KB) To 46	675.00 ft (KB) (TVD)		Refe	erence Ee	vations:	3323.00	ft (KB)
Hole Diameter: 7.88 inchesHole	VD) e Condition: Good			KB t	o GR/CF:	3318.00 5.00	ft (CF) ft
Serial #: 8366OutsidePress@RunDepth:16.00 psigStart Date:2020.07.16Start Time:23:27:01	@ 4631.00 ft (KB) End Date: End Time:	2020.07.17 05:44:50	Capacity Last Calil Time On Time Off	: b.: Btm: 2 Btm: 2	2 2020.07.17 @ 2020.07.17 @	8000.00 020.07.17 01:45:30 03:06:40	psig
TEST COMMENT: 10 IF - 3/4" built 1 30 ISI - No return 10 FF - No blow 30 FSI - No retur	io 1" n						
Pressure vs. T	Time To 808 Ioncodue		PF		E SUMMA	RY	
200 200 300 500 500 500 500 500 500 5	Stol largemake Stol largemake 10 10 10 10 10 10 10 10 10 10	Time (Min.) 0 11 40 40 50 81 82	Pressure (psig) 2404.68 13.20 14.19 751.34 15.79 16.00 571.42 2360.93	Temp (deg F) 134.74 133.82 136.29 138.08 137.68 138.43 139.89 140.37	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-	static w (1) 1) w (2) 2) static	
Recovery				Ga	s Rates		
Length (ft) Description 5.00 Mud 100% M	Volume (bbl) 0.02			Choke (i	nches) Pressure	(psig) Gas	Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 66652			Printed:	2020.07.17 @	08:14:56	

	DRILL STEM TES	T REPO	RT			
	Black Oak Exploration		14-2s-36	w Rawl	in KS	
ESTING , INC	1474 S. St Paul St.		Frisbie F	amily	#2-14	
	Denver Co 80210		Job Ticket:	66652	DST	#:6
NOK.	ATTN: Clayton Camozzi		Test Start:	2020.07	.16 @ 23:27:0	0
GENERAL INFORMATION:						
Formation:Ft. ScottDeviated:NoWhipstock:Time Tool Opened:01:45:40Time Test Ended:05:44:50	ft (KB)		Test Type: Tester: Unit No:	Conve Ryan N 71	ntional Bottom Nichols	Hole (Reset)
Interval: 4630.00 ft (KB) To 46	675.00 ft (KB) (TVD)		Reference	Bevation	is: 3323.	00 ft (KB)
Total Depth: 4675.00 ft (KB) (T Hole Diameter: 7.88 inchesHole	/D) e Condition: Good		к	B to GR/	3318. CF: 5.	.00 ft (CF) .00 ft
Serial #: 8353InsidePress@RunDepth:psigStart Date:2020.07.16Start Time:23:27:01	@ 4631.00 ft (KB) End Date: End Time:	2020.07.17 05:44:40	Capacity: Last Calib.: Time On Btm:		8000. 2020.07.	00 psig 17
TEST COMMENT: 10 IF - 3/4" built 1 30 ISI - No return 10 FF - No blow 30 FSI - No retur	o 1" 1					
Pressure vs. T	ine		PRESS	URE SI	JMMARY	
2200 2000 2000 500 500 500 500 7/Fit Trre (+Loss)		Time F (Min.)	Pressure Tem (psig) (deg	F)	notation	
Recovery			(Gas Rat	es	
Length (ft) Description	Volume (bbl)		Cho	ke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
5.00 Mud 100%M	0.02					

10x		DRI	ILL STEM TEST	REPOR	Г	I	FLUID SI	JMMARY
1232		Black (Oak Exploration		14-2s-36w	Rawlin KS		
	ESTING , INC.	1474 S Denve	S. St Paul St. r Co 80210		Frisbie Fa	amily #2-14	DST#:6	
' 1887 '			Clautan Camazzi		Toot Stort	00002 0000 07 16 @ 0'	0.07.00	
		ATTN.	Clayton Camozzi			2020.07.10 @ 23	5.27.00	
Mud and C	Cushion Information							
Mud Type:	Gel Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	52.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	7.20 in ³		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressu	re:	psig			
Salinity:	800.00 ppm							
Filter Cake:	2.00 inches							
Recovery	Information							
			Recovery Table					
	Leng	th	Description		Volume			
	ft	5.00	Mud 100%M		0.02	5		
	T-4-11	5.00		0.005 kkl	0.02	<u> </u>		
	Total Length:	0	5.00 TL TOLAI VOIUME:	0.025 001				
	Num Fluid Samp	les: 0	Num Gas Bombs:	0	Serial #	#:		
	Laboratory Nan	ne:	Laboratory Locat	ion:				
	Recovery Com	nents:						

Printed: 2020.07.17 @ 08:14:56

Ref. No: 66652

Trilobite Testing, Inc



Frisbie Family #2-14

Printed: 2020.07.17 @ 08:14:56

Ref. No: 66652





AK EXPLOR ATION Scale 1:240 (5"=100') Imperial Measured Depth Log Well Name: Frisbie Family 2-14 Well Id: Location: Section 14 - 2S - 36W Rawlins Co, Kansas License Number: API # 15-153-21252-0000 Region: Wildcat Spud Date: 07/08/2020 Drilling Completed: 07/18/2020 Surface Coordinates: 2200 FSL & 1250 FWL **Bottom Hole** Coordinates: Ground Elevation (ft): 3318' K.B. Elevation (ft): 3323' Logged Interval (ft): 4000 To: 5350 Total Depth (ft): 5350 Formation: Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.co

OPERATOR

Company: BLACK OAK EXPLORATION, LLC Address: 1474 S St Paul St Denver CO 80210

GEOLOGIST

Name: Clayton Camozzi Company: Black Oak Exploration, LLC Address: 1474 S St Paul St Denver CO 80210 Cell: 303.968.4999

REMARKS

After review of the open hole logs, DST data and geological log data it was recommended to run 5-1/2" production casing on the Frisbie Family 2-14 for an Arbuckle SWD. *Note - The drill time, DST intervals, and sample tops are 2' uphole/shallow to the E-logs. The GR curve has been shifted 2' downhole to match the aformentioned on this log. The samples will be delivered, processed, and available for review at the KGS Library located in Wichita, Kansas Respectfully, Clayton Camozzi

, LLC	
xploration	MPARISON SHEET
Oak E	WELL CC
Black	

Company: Black Oak Exploration, LLC 1474 S St Paul St Denver, CO 80210 Contact: Clayton Camozzi 303-968-4999 (Cell)

Elevation: 3318' GL 3323' KB Field: Wildcat Well: Frisbie Family 2-14 Location: 2220 FSL & 1250 FWL Sec. 14 - 2s - 36w Rawlins Co., KS

API No: 15-153-21252-0000 Surface Casing: 8 5/8" set @ 396.68' KB Wellsite Geologist: Clayton Camozzi Cell: (303) 968-4999

Drilling Contractor: Murfin Drilling Co Rig #7. Rig Phone (785-443-5616), Tool Pusher Arturo Cabezas (308-443-5616)

			_	ip	bo	~	5			.	-			2	4	2	8			
		er	ructura	ationsh	٦		'		'	'		1	'		'					
	-15	Produc	St	Rel	Sample	4	÷	,	ņ	÷	÷	ę	ę	7	4	0	9			
ON WELL	, Frisbie #1	1440 FEL	- 36w	KB	Sub-Sea	114	-719	-839	-882	-934	966-	-1051	-1138	-1205	-1295	-1326	-1383			-1525
COMPARIS	Ritchie Exp	2050 FSL &	Sec. 15 - 2s	3330	Log	3216	4049	4169	4212	4264	4326	4381	4468	4535	4625	4656	4713			4855
	nily #1-14		ctural	onship	Log	ę	2	-5	ę	ģ	4	ø	-7	9	-2	÷	9			
	Frisbie Far	Producer	Strue	Relati	Sample	9	4	٩	9	9	<i>L</i> -	ø	-7	÷	-2	ę	-3			
SON WELL	Exploration	\$ 2970 FEL	s - 36w	KB	Sub-Sea	124	-716	-834	-879	-929	066-	-1046	-1134	-1197	-1289	-1323	-1374			-1560
COMPARI	Black Oak	2396 FSL	Sec. 14 - 2	3320	Log	3196	4036	4154	4199	4249	4310	4366	4454	4517	4609	4643	4694			4880
	y #2-14				Sub-Sea	121	-721	-839	-885	-935	-995	-1054	-1141	-1203	-1291	-1324	-1380	-1591	-1780	-2027
	ie Famil				Log	3202	4044	4162	4208	4258	4318	4377	4464	4526	4614	4647	4703	4914	5103	5350
WELL	Exp, Frisb	& 1250 FWI	s - 36w	KB	Sub-Sea	118	-720	-840	-885	-935	-997	-1054	-1141	-1198	-1291	-1326	-1377	-1597	-1779	-2027
DRILLING	Black Oak	2220 FSL	Sec. 14 - 2	3323	Sample	3205	4043	4163	4208	4258	4320	4377	4464	4521	4614	4649	4700	4920	5102	5350
	2' Uphole Correction	Drill Time vs E-logs			Formation	Stone Corral	Topeka	Oread	Heebner	Lansing	Lansing D	Lansing G	Lansing J	BKC	Pawnee	Fort Scott	Cherokee	Mississippian	Arbuckle	Total Depth

	DRILL STEM TES	T REP	ORT				
	Black Oak Exploration		14-2	2s-36w F	Rawlin K	S	
ESTING , INC	1474 S. St Paul St. Denver Co 80210		Fris	bie Fan licket: 66	nily #2-14	L DST#-/	
	ATTN: Clayton Camozzi		Test	Start: 20	20.07.12 @	13:45:00	
GENERAL INFORMATION:							
Formation:LKC " A "Deviated:NoWhipstock:Time Tool Opened:16:32:30Time Test Ended:21:22:39	ft (KB)		Test Teste Unit I	Type: C er: F No: 7	Conventiona Ryan Nichols 71	il Bottom Ho s	le (Initial)
Interval:4242.00 ft (KB) To42Total Depth:4242.00 ft (KB) (The constraint of the constraint of t	70.00 ft (KB) (TVD) /D) condition: Good		Refe	rence Ee KB te	vations: o GR/CF:	3323.00 3318.00 5.00	ft (KB) ft (CF) ft
Serial #: 8366 Outside Press@RunDepth: 163.23 psig Start Date: 2020.07.12 Start Time: 13:45:01 TEST COMMENT: 15 IF - Surface b	@ 4243.00 ft (KB) End Date: End Time:	2020.07.12 21:22:40	Capacity: Last Calib Time On E Time Off B	.: 8tm: 2 8tm: 2	2020.07.12 (2020.07.12 (8000.00 2020.07.12 @ 16:32:10 @ 19:04:20	psig
60 ISI - No return 15 FF - No blow 60 FSI - No return	n	1					
Z70 - S330 Pasare	STO Temperature	Time	PR	Termo	E SUMM/		
		(Min.) 0 1 15 75 91 152 153	(psig) 2145.91 158.59 163.17 695.55 159.14 163.23 550.94 2067.25	(deg F) 129.89 129.29 129.87 132.28 132.06 132.65 134.74 135.15	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	o-static low (1) n(1) low (2) n(2) o-static	
Recovery				Gas	s Rates		
Length (ft) Description	Volume (bbl)			Choke (in	nches) Pressu	re (psig) G	as Rate (Mct/d)
290.00 Mud 100%M	1.92						

	DRILL STEM	TEST REP	ORT		
	Black Oak Exploration		14-2s-36v	v Rawlin KS	;
ESTING ,	INC 1474 S. St Paul St. Denver Co 80210		Frisbie F	amily #2-14 66548	DST#: 2
	ATTN: Clayton Camozzi		Test Start:	2020.07.13 @	11:15:00
GENERAL INFORMATION:					
Formation: LKC " D " Deviated: No Whipster Time Tool Opened: 13:34:00 Time Test Ended: 18:44:09	ock: ft (KB)		Test Type: Tester: Unit No:	Conventional Ryan Nichols 71	Bottom Hole (Reset)
Interval:4280.00 ft (KB) ToTotal Depth:4351.00 ft (KIHole Diameter:7.88 inche	 4351.00 ft (KB) (TVD) B) (TVD) Bhole Condition: Good 		Reference	Bevations: B to GR/CF:	3323.00 ft (KB) 3318.00 ft (CF) 5.00 ft
Sorial #: 9266 Outside					
Serial #: 8366 Outside Press@RunDepth: 32.58 Start Date: 2020.0 Start Time: 11:1	psig @ 4281.00 ft (KB) 7.13 End Date: 5:01 End Time:	2020.07.13 18:44:10	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2 2020.07.13 @ 2020.07.13 @	8000.00 psig 2020.07.13 2013:33:50 2016:40:00
60 ISI - No 20 FSI - Su 90 FSI - No	return Irface blow started @ 10 mins sta return	ayed at surface blow	PRESS		- PV
EXCPosure	S35 Tonponker	- Time	PRESS	Annotation	ו
220		(Min.)	(noin) (don	-	
2000		1 19	(psig) (deg	"	
			(psig) (deg	19 Initial Hydro	-static
170	-15		(psig) (deg 2183.65 126.4 17.12 125.7	 Initial Hydro Open To Flo Shut In(1) 	-static ow (1)
		6 1 6 15 75	(psig) (deg 2183.65 126.4 17.12 125.1 23.88 126.4 1079.70 129.1	 F) Initial Hydro Open To Flo Shut-In(1) Fpd Shut-In 	-static ow (1)
		0 55 1 15 15 15 75 75	(deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7	 F) Initial Hydro Open To Flo Shut-In(1) End Shut-In(7) Open To Flo 	-static ow (1) (1) ow (2)
			(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9	 F) Initial Hydro- Open To Flo Shut-In(1) End Shut-Ini Open To Flo Shut-In(2) 	-static ow (1) (1) ow (2)
		0 5 1 5 15 75 76 96 186	(deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3	 F) Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In(2) End Shut-In 	-static ow (1) (1) ow (2) (2)
		0 5 1 5 15 75 15 75 16 96 186 186 187	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.7 1787.95 133.5	 F) Initial Hydro Open To Flo Shut-ln(1) End Shut-ln Open To Flo Shut-ln(2) Shut-ln(2) End Shut-ln Final Hydro 	-static (1) (1) (2) (2) -static
		0 1 1 15 15 75 76 96 186 187 187 187	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.7 1787.95 133.9	 F) Initial Hydro Open To Flo Shut-In(1) End Shut-Ini Open To Flo Shut-In(2) End Shut-Ini Final Hydro 	-static ow (1) (1) (2) (2) -static
		0 5 1 5 15 75 76 96 58 186 186 187 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3 1787.95 133.9	 F) Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In(2) End Shut-In Final Hydro 	-static ow (1) (1) ow (2) (2) -static
		0 5 5 15 75 15 75 76 96 186 186 187 5 187 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.7 24.03 128.7 32.58 129.9 1038.94 133.7 1787.95 133.5	 F) Initial Hydro Open To Flo Shut-ln(1) End Shut-ln Open To Flo Shut-ln(2) Shut-ln(2) End Shut-ln Final Hydro 	-static ow (1) (1) ow (2) (2) -static
		0 1 1 15 15 75 76 96 186 186 187 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.7 1787.95 133.9	 F) Initial Hydro- Open To Flo Shut-In(1) End Shut-In(2) Shut-In(2) End Shut-In(2) End Shut-In(57) Final Hydro- 	-static ow (1) (1) ow (2) (2) -static
		0 1 1 15 15 75 15 76 96 186 186 187 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3 1787.95 133.5	 F) Initial Hydro Open To Flo Shut-ln(1) End Shut-ln Open To Flo Shut-ln(2) End Shut-ln(2) End Shut-ln Final Hydro 	-static ow (1) (1) ow (2) (2) -static
		0 1 1 15 15 75 76 96 186 186 187 5 187 5 187 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3 1787.95 133.5	F) 19 Initial Hydro 19 Open To Flo 18 Shut-In(1) 37 End Shut-In(2) 38 End Shut-In(2) 28 End Shut-In(2) 28 End Shut-In(57 Final Hydro- 57 Final Hydro-	-static ow (1) (1) ow (2) (2) -static
Reco	Very	0 5 1 5 15 75 76 96 5 5 186 187 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3 1787.95 133.9 (deg)	F) Initial Hydro 19 Open To Flo 18 Shut-In(1) 37 End Shut-In 79 Open To Flo 35 Shut-In(2) 28 End Shut-In 57 Final Hydro- 57 Final Hydro- 58 Rates The function of the second s	-static pw (1) (1) pw (2) (2) -static e (psig) Gas Rate (Mct/d)
Reco	very on Volume (bbl) tool 100%M 0.07	0 1 1 1 1 1 1 1 1 1 1 1 1 1	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.3 24.03 128.7 32.58 129.9 1038.94 133.3 1787.95 133.5 Choi	F) Initial Hydro 19 Open To Flo 18 Shut-In(1) 19 Open To Flo 19 Open To Flo 20 Shut-In(2) 28 End Shut-In(2) 28 End Shut-In(2) 28 End Shut-In(2) 29 Final Hydro- 57 Final Hydro- 57 Final Hydro- 57 Final Hydro-	-static pw (1) (1) pw (2) (2) -static e (psig) Gas Rate (Mct/d)
Reco	very	0 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	(psig) (deg) 2183.65 126.4 17.12 125.7 23.88 126.4 1079.70 129.7 24.03 128.7 32.58 129.9 1038.94 133.7 1787.95 133.9 Choi	F) Initial Hydro 19 Open To Flo 18 Shut-In(1) 37 End Shut-In(2) 28 End Shut-In(2) 28 End Shut-In(2) 28 End Shut-In(2) 29 Final Hydro- 57 Final Hydro- 57 Final Hydro- 58 Rates 19 Open To Flo 59 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 51 Shut-In(2) 52 Shut-In(2) 53 Shut-In(2) 54 Shut-In(2) 55 Shut-In(2) 56 Shut-In(2) 57 Final Hydro- 57 Shut-In(2) 58 Shut-In(2) 59 Shut-In(2) 59 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 51 Shut-In(2) 52 Shut-In(2) 53 Shut-In(2) 54 Shut-In(2) 55 Shut-In(2) 57 Final Hydro- 57 Shut-In(2) 58 Shut-In(2) 59 Shut-In(2) 59 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 50 Shut-In(2) 51 Shut-In(2) 52 Shut-In(2) 53 Shut-In(2) 54 Shut-In(2) 55 Shut-In(2) 57 Shut-In(2) 57 Shut-In(2) 57 Shut-In(2) 57 Shut-In(2) 58 Shut-In(2) 59 Shut-In(2) 50 Shut-In	-static pw (1) (1) pw (2) (2) (2) -static e (psig) Gas Rate (Mct/d)

	DRILL STEM TES	T REP	ORT			
	Black Oak Exploration		14-:	2s-36w	Rawlin KS	
ESTING, INC	1474 S. St Paul St. Denver Co 80210		Fris	sbie Far	mily #2-14	DST#: 3
N 37 '	ATTN: Clayton Camozzi		Tes	t Start: 20	20.07.14 @	06:11:00
GENERAL INFORMATION:						
Formation:LKC " G "Deviated:NoWhipstock:Time Tool Opened:08:22:50Time Test Ended:13:53:00	ft (KB)		Tes Tes Unit	t Type: (ter: I No: :	Conventional Ryan Nichols 71	Bottom Hole (Reset)
Interval:4354.00 ft (KB) To44Total Depth:4451.00 ft (KB) (The construction of the con	101.00 ft (KB) (TVD) √D) e Condition: Good		Refe	erence Ee KB t	evations: o GR/CF:	3323.00 ft (KB) 3318.00 ft (CF) 5.00 ft
Serial #: 8366 Outside Press@RunDepth: 642.40 psig Start Date: 2020.07.14 Start Time: 06:11:01 TEST COMMENT: 5 IF - BoB @ 2 m 60 ISI - No return 55 EF - BoB @ 2 m	@ 4355.00 ft (KB) End Date: End Time:	2020.07.14 13:53:00	Capacity Last Calil Time On I Time Off	: b.: Btm: 2 Btm: 2	2 2020.07.14 @ 2020.07.14 @	8000.00 psig 020.07.14 9 08:22:40 9 11:22:30
60 FSI - No retur	Time		PF	RESSUF	RE SUMMA	RY
Difference and and a second s		Time (Min.) 0 1 5 65 66 119 180 180	Pressure (psig) 2228.11 119.21 251.02 647.83 261.71 642.40 645.56 2007.16	Temp (deg F) 125.26 124.96 147.77 143.35 143.23 151.57 149.56 150.42	Annotation Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-	n -static ww (1) (1) ww (2) (2) (2) -static
				Ga	s Rates	
Recovery						
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressure	(psig) Gas Rate (Mcf/d)
Length (ft) Description 60.00 WCM - 30%M - 70%W 995.00 MCW - 5%M - 95%W	Volume (bbl) 0.30 12.35			Choke (i	nches) Pressure	(psig) Gas Rate (Mcf/d)
Length (ft) Description 60.00 WCM - 30%M - 70%W 995.00 MCW - 5%M - 95%W 356.00 MCW - 50%M - 50%W	Volume (bbl) 0.30 12.35 4.99			Choke (i	nches) Pressure	(psig) Gas Rate (Mct/d)

	DRILL STEM TEST REPORT					
TESTING, INC	Black Oak Exploration	14-2s-3	14-2s-36w Rawlin KS			
	1474 S. St Paul St. Denver Co 80210		Frisbie	Family #2-14	DST#:4	
	ATTN: Clayton Camozzi		Test Star	t: 2020.07.14 @	23:36:00	
GENERAL INFORMATION:						
Formation:LKC " H "Deviated:NoWhipstock:Time Tool Opened:01:49:50Time Test Ended:06:21:30	ft (KB)		Test Type Tester: Unit No:	e: Conventiona Ryan Nichols 71	l Bottom Hole (Reset)	
Interval: 4410.00 ft (KB) To 4436.00 ft (KB) (TVD) Reference Elevations: 3323.00 ft (KB) Total Depth: 4436.00 ft (KB) (TVD) 3318.00 ft (CF) 3318.00 ft (CF) Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 5.00 ft						
Serial #: 8366 Outside Press@RunDepth: 20.30 psig Start Date: 2020.07.14 Start Time: 23:36:01	 @ 4411.00 ft (KB) End Date: End Time: 	2020.07.15 06:21:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2020.07.15 (2020.07.15 (8000.00 psig 2020.07.15 @ 01:49:40 @ 04:14:50	
TEST COMMENT: 15 IF - 1" blow 60 ISI - No retur 10 FF - No blow 60 FSI - No retu	puilt to 1 1/4" n rn					
Pressure vs.	Time Toppalare	PRESSURE SUMMARY			ARY	
		(Min.) 0 1 15 75 75 86 145 146	Pressure Tel (psig) (de) 2262.02 124 17.85 124 20.29 134 787.55 134 20.23 133 20.30 134 574.55 133 2212.52 135	9.38 Initial Hydro 3.47 Open To Fl 0.54 Shut-In(1) 4.24 End Shut-In 3.86 Open To Fl 4.44 Shut-In(2) 7.28 End Shut-In 7.87 Final Hydro	o-static low (1) h(1) low (2) h(2) o-static	
Recovery		Gas Rates				
Length (ft) Description	Volume (bbl)		с	hoke (inches) Pressu	re (psig) Gas Rate (Mct/d)	
5.00 Mud w /oil spots in tool	00%M 0.02		I	I		

10th		DRILL STEM TES	ST REP	ORT				
	Black Oak Exploration	14-2s-36w Rawlin KS						
ESTING , INC		1474 S. St Paul St. Denver Co 80210		Fris	bie Fan	nily #2-14	DST#-5	1
		ATTN: Clayton Camozzi		Test	Start: 20	20.07.15 @ 1	5:43:00	,
GENERAL I	NFORMATION:							
Formation: Deviated: Time Tool Oper Time Test Ende	LKC " J " No Whipstock: ned: 18:06:40 ed: 22:50:09	ft (KB)		Test Teste Unit N	Type: C er: F No: 7	Conventional E Ryan Nichols 71	Bottom Hol	e (Reset)
Interval: Total Depth: Hole Diameter:	4433.00 ft (KB) To 44 4480.00 ft (KB) (TV 7.88 inchesHole	180.00 ft (KB) (TVD) ∕D) e Condition: Good		Refe	rence ⊟e KB te	vations: o GR/CF:	3323.00 3318.00 5.00	ft (KB) ft (CF) ft
Serial #: 83 Press@RunDe Start Date: Start Time:	366 Outside opth: 21.48 psig 2020.07.15 15:43:01	 4434.00 ft (KB) End Date: End Time: 	2020.07.15 22:50:10	Capacity: Last Calib. Time On B Time Off E	.: 8tm: 2 8tm: 2	20 2020.07.15 @ 2020.07.15 @	8000.00 20.07.15 18:06:30 20:21:39	psig
TEST COMM	MENT: 15 IF - 1/4" blow 45 ISI - No return 15 FF - No blow, 60 FSI - No return	n flushed tool, no blow n						
	Pressure vs. T	Sime SUB Temperature	PRESSURE SUMMARY					
2000 1500 500 500 7 7 1500 500 7 7 1500 150	Time Aug		(Min.) 0 1 15 60 61 76 135 136	(psig) 2289.08 17.01 19.44 964.58 20.21 21.48 1003.58 2235.99	(deg F) 127.80 126.78 129.35 131.82 131.40 132.19 134.41 134.88	Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(1 Open To Flov Shut-In(2) End Shut-In(2 Final Hydro-s	static v (1) 1) v (2) 2) static	
	Recovery			Gas Rates				
Length (ft)	Description	Volume (bbl)			Choke (ir	nches) Pressure	(psig) Ga	s Rate (Mct/d)
5.00	Mud w /oil spots in tool 10	0.02						

	DRILL STEM TES	T REP	ORT			
TESTING, INC	Black Oak Exploration		14-2s-36w Rawlin KS			
	1474 S. St Paul St. Denver Co 80210		Frisb	ie Family #2	2-14 DST#: 6	
	ATTN: Clayton Camozzi		Test S	tart: 2020.07.10	6 @ 23:27:00	
GENERAL INFORMATION:						
Formation: Ft. Scott Deviated: No Whipstock: Time Tool Opened: 01:45:40 Time Test Ended: 05:44:50	ft (KB)		Test T Tester Unit N	ype: Conventi : Ryan Nic o: 71	ional Bottom Hole (Reset) hols	
Interval:4630.00 ft (KB) To46Total Depth:4675.00 ft (KB) (TVHole Diameter:7.88 inches Hole	75.00 ft (KB) (TVD) /D) condition: Good	Reference Elevations: 3323.00 ft (KB) 3318.00 ft (CF) KB to GR/CF: 5.00 ft			3323.00 ft (KB) 3318.00 ft (CF) 5.00 ft	
Serial #: 8366 Outside Press@RunDepth: 16.00 psig Start Date: 2020.07.16 Start Time: 23:27:01 TEST COMMENT: 10 IF - 3/4" built t 30 ISI - No return 10 FF - No blow 30 FSI - No return 10 FSI - No return	 4631.00 ft (KB) End Date: End Time: 	2020.07.17 05:44:50	Capacity: Last Calib.: Time On Btr Time Off Bt	π 2020.07. m 2020.07.	8000.00 psig 2020.07.17 17 @ 01:45:30 17 @ 03:06:40	
Pressure vs. T	inc	PRESSURE SUMMARY			MARY	
	EXE Transmission France Constrained of the second of the	Time (Min.) 0 1 11 40 40 50 81 82	Pressure (psig) (2404.68 13.20 14.19 751.34 15.79 16.00 571.42 2360.93	Temp Anno deg F) 134.74 Initial H 133.82 Open T 136.29 Shut-In 138.08 End Sh 137.68 Open T 138.43 Shut-In 139.89 End Sh 140.37 Final H	tation ydro-static To Flow (1) (1) ut-In(1) To Flow (2) (2) ut-In(2) ydro-static	
Recovery		Gas Rates				
Length (ft) Description	Volume (bbl)	Choke (inches) Pressure (psig) Gas Rate (Mct/d)				
5.00 Mud 100%M	0.02					













