KOLAR Document ID: 1633393

Confidentiality Requested:

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 - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip: +	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
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:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
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)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date 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 Approved by: Date:					

KOLAR Document ID: 1633393

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:	Purpose: Depth Type of Cement				# Sacks Used Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.	Set	n.	i donei Al.					

Form	ACO1 - Well Completion				
Operator	Black Oak Exploration, LLC				
Well Name	MARY 1-27				
Doc ID	1633393				

All Electric Logs Run

DUCP	
POR	
MICRO	
SONIC	

Form	ACO1 - Well Completion				
Operator	Black Oak Exploration, LLC				
Well Name	MARY 1-27				
Doc ID	1633393				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	23	248	Class H	2% Gel 3% CC



	ALIMEN	T REPO	RT					
mer:	Black Oa	k Explo	ration	Well:		Mary # 1-27	Ticket:	WP-1929
tate:	Oakley K	S		County:		Rawlins KS	Date:	10/4/2021
				S-T-R:		27-5S-31W	Service:	Surface
								ılated Slurry - Tail
							THE RESERVE OF THE PARTY OF THE	nateu Siurry - Tan
								ppg
								gal / sx
								ft ³ /sx
								bbs / ft.
								ft
4000							Annular Volume:	0 bbls
epth:		ft			125%		Excess:	
nent:				Total Slurry:		obls	Total Slurry:	0.0 bbls
		STAGE	TOTAL	Total Sacks:	175 9	5X	Total Sacks:	0 sx
RATE	PSI	BBLs	BBLs	REMARKS				
		-	-	Arrival				
			-	Safety meeting				
				Rig up				
4.4	100.0	5.0	5.0	H2O ahead				
5.1	220.0	43.9	48.9		48'			
3.0	150.0	14.5	63.4					
			63.4					
		-		·				
				Depart location				
			63.4					
					,			
No. of Lot						(12) (13) (13) (13) (13) (13) (13) (13) (13	CHIMAR	v
nenter:	Jess	e J		78	1	Average Rate	Average Pressure	Total Fluid
				1-11-6	1	4.0 1	157!	63 hble
erator:	Mich Kale	ael R		181/520 205		4.2 bpm	157 psi	63 bbls
I S S S S S S S S S S S S S S S S S S S	Rep: Rep: Rep: Rep: Rep: Rep: Repth: Size: epth: iner: epth: RATE RATE	tate: Oakley K Rep: Arturo hole Informatio Size: 12 1/4 epth: 248 Size: 8 5/8 epth: 245 iner: epth: cker: epth: nent: 14.5 RATE PSI 4.4 100.0 5.1 220.0 3.0 150.0	tate: Oakley KS Rep: Arturo hole Information Size: 12 1/4 in epth: 248 ft Size: 8 5/8 in epth: 245 ft iner: in epth: ft cker: epth: ft nent: 14.5 bbls STAGE RATE PSI BBLs 4.4 100.0 5.0 5.1 220.0 43.9	Cartage Cart	Rep: Arturo Calculated SI Blend: Weight: Water / Sx: Yield: Annular Bbls / Ft.: Depth: 14.5 bbls STAGE TOTAL RATE PSI BBLs BBLs REMARKS Arrival - Safety meeting Rig up 4.4 100.0 5.0 5.0 H2O ahead 5.1 220.0 43.9 48.9 Mix 175 sks @ 14.8 @ 2 3.0 150.0 14.5 63.4 Displaced H2O 6.3.4 Wash up 6.3.4 Rig down 6.3.4 Rig down 6.3.4 Rig down 6.3.4 Depart location	tate: Oakley KS Rep: Arturo ST-R: Calculated Slurry - Lead Blend: H-32 Weight: 14.8 r Weight: 948 ft Size: 8 5/8 in Epth: 245 ft Inter: in Epth: ft Excer: 14.5 bbls STAGE TOTAL RATE PSI BBLS BBLS REMARKS Arrival Safety meeting An 100.0 5.0 5.0 H2O ahead 15.0 14.5 63.4 Displaced H2O 63.4 Wash up 63.4 Rig down 63.4 Depart location 63.4 Depart location 63.4 Depart location 63.4 Depart location	County: Rawlins KS Rep: Arturo S-T-R: 27-5S-31W	County: Rawlins KS Date:

ftv: 13-2021/01/19 mplv: 87-2021/01/11



EMENT TRE	ATMEN	T REPO	ORT		A STATE OF THE STATE OF					
Customer:	Black O	ak Explo	oration	Well:	Mary # 1-27	Ticket:	WP 1983			
City, State:	Oakley k	<s< td=""><td></td><td>County:</td><td>Rawlins KS</td><td>Date:</td><td>10/13/2021</td></s<>		County:	Rawlins KS	Date:	10/13/2021			
Field Rep:	Josh Mo	Josh Mosier S-T-R:		27-5S-31W	Service:	РТА				
Downhole I	nformatio	on		Calculated SI	urry - Lead	Calcu	ılated Slurry - Tail			
Hole Size:	7.875	in		Blend:	H- Plug	Blend:				
Hole Depth:	4600	ft		Weight:	13.8 ppg	Weight:	ppg			
Casing Size:		in		Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx			
asing Depth:		ft		Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx			
ubing / Liner:		in		Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.			
Depth:		ft		Depth:	2675	Depth:	ft			
ool / Packer:				Annular Volume:	108.6 bbls	Annular Volume:	0 bbls			
Tool Depth:		ft		Excess:		Excess:				
isplacement:		bbls	-0	Total Source	64.4 bbls	Total Slurry:	0.0 bbls 0 sx			
IME RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks: REMARKS	255 sx	Total Sacks:	USX			
105P	101		-	GOT TO LOCATION						
110P			-	SAFETY MEETING						
115P			-	RIGGED UP TRUCKS						
135P 3.0	150.0	5.0	5.0	PUMPED H20 AHEAD						
137P 2.1	250.0	12.6	17.6	PUMPED 50 SKS OF H-	PLUG @ 2675 FT					
143P 5.0	200.0	33.0	50.6	DISPLACED WITH H20						
212P 3.6	300.0	25.2	75.8	PUMPED 100 SKS OF H	- PLUG @ 1950 FT					
219P 5.0	250.0	18.0	93.8	DISPLACED WITH H20	DISPLACED WITH H20					
307P 3.5	250.0	12.6	106.4	PUMPED 50 SKS OF H- PLUG @ 300 FT						
311P 3.0	150.0	1.0	107.4	DISPLACED WITH H20	DISPLACED WITH H20					
341P 3.0	100.0	2.5	109.9	PUMPED 10 SKS IN TO						
343P 3.0	100.0	3.7		PUMPED 15 SKS IN RH						
345P		7.5		PUMPED 30 SKS IN MH						
400P				PLUG DOWN	ICK					
405P				WASHED UP PUMP TRI RIGGED DOWN TRUCK						
415P 445P				OFF LOCATION						
4401				orr zoormon						
					*					
			000 - 6000	111/12		SUMMARY	,			
	CREW			UNIT	Average Rate	Average Pressure	Total Fluid			
Cementer:	Josh			73 208	3.5 bpm	194 psi	121 bbls			
Pump Operator: Bulk #1:	John Kale			194/254	0.0 ppiii	104 901	INI NAIV			
Bulk #1: Bulk #2:				107/204						



Black Oak Exploration LLC

1474 S St Paul ST Denver CO 80210+2514

ATTN: Clayton Cammozi

27-5s-31w Rawlins KS

Mary #1-27

Job Ticket: 67772 DST#: 1

Test Start: 2021.10.09 @ 11:50:00

GENERAL INFORMATION:

Formation: Tor-LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:18:47 Time Test Ended: 18:46:27

Interval: 3924.00 ft (KB) To 3994.00 ft (KB) (TVD)

Inside

Total Depth: 3994.00 ft (KB) (TVD)

7.88 inches Hole Condition: Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Spencer J Staab

Unit No: 84

Reference Elevations:

2950.00 ft (KB)

2945.00 ft (CF)

psig

KB to GR/CF: 5.00 ft

Serial #: 6838

Press@RunDepth: 45.44 psig @

Start Date: 2021.10.09 3927.00 ft (KB)

2021.10.09

Capacity: Last Calib.:

Tester:

2021.10.09

Start Time: 11:50:01 End Date: End Time:

18:46:27

Time On Btm:

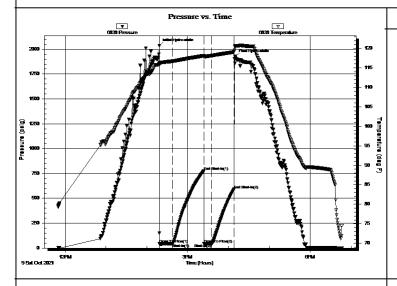
2021.10.09 @ 14:18:32

Time Off Btm:

2021.10.09 @ 16:09:57

TEST COMMENT: 20-IF-Slid 8' lost 10' mud Bled off 2.5" Surface Blow

45-ISI-No Return 10-FF-No Blow 30-FSI-No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2034.95	116.41	Initial Hydro-static
1	42.97	115.86	Open To Flow (1)
20	44.13	116.71	Shut-In(1)
66	775.51	118.08	End Shut-In(1)
66	45.70	117.78	Open To Flow (2)
77	45.44	118.13	Shut-In(2)
110	590.65	119.08	End Shut-In(2)
112	1924.74	120.60	Final Hydro-static

Recovery

Description	Volume (bbl)
Mud 100%M	0.15
	·

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67772 Printed: 2021.10.09 @ 19:33:44



Black Oak Exploration LLC

Mary #1-27

27-5s-31w Rawlins KS

1474 S St Paul ST Denver CO 80210+2514

Job Ticket: 67772

DST#: 1

ATTN: Clayton Cammozi

Test Start: 2021.10.09 @ 11:50:00

GENERAL INFORMATION:

Formation: Tor-LKC

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 14:18:47 Time Test Ended: 18:46:27 Tester:

Test Type: Conventional Bottom Hole (Initial)

Spencer J Staab

Unit No:

84

2950.00 ft (KB)

3924.00 ft (KB) To 3994.00 ft (KB) (TVD) 3994.00 ft (KB) (TVD)

Reference Elevations:

2945.00 ft (CF)

Total Depth: Hole Diameter:

7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8875 Press@RunDepth:

Interval:

Inside

psig @

3927.00 ft (KB)

Capacity: Last Calib.: psig

Start Date: Start Time:

2021.10.09

End Date:

2021.10.09

Time On Btm:

2021.10.09

11:50:01

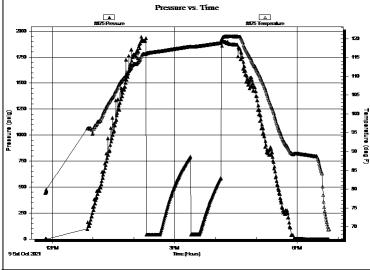
End Time:

18:46:27

Time Off Btm:

TEST COMMENT: 20-IF-Slid 8' lost 10' mud Bled off 2.5" Surface Blow

45-ISI-No Return 10-FF-No Blow 30-FSI-No Return



PRESSURE S	SUMMARY
------------	---------

•	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	, ,	0/	,	
=				
3				
=				
Temperature (deg F)				
ت				
		1		

Recovery

Description	Volume (bbl)	
Mud 100%M	0.15	
	·	

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67772 Printed: 2021.10.09 @ 19:33:45



FLUID SUMMARY

Black Oak Exploration LLC

27-5s-31w Rawlins KS

1474 S St Paul ST Denver CO 80210+2514 Mary #1-27

Job Ticket: 67772

DST#: 1

ATTN: Clayton Cammozi

Test Start: 2021.10.09 @ 11:50:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%M	0.148

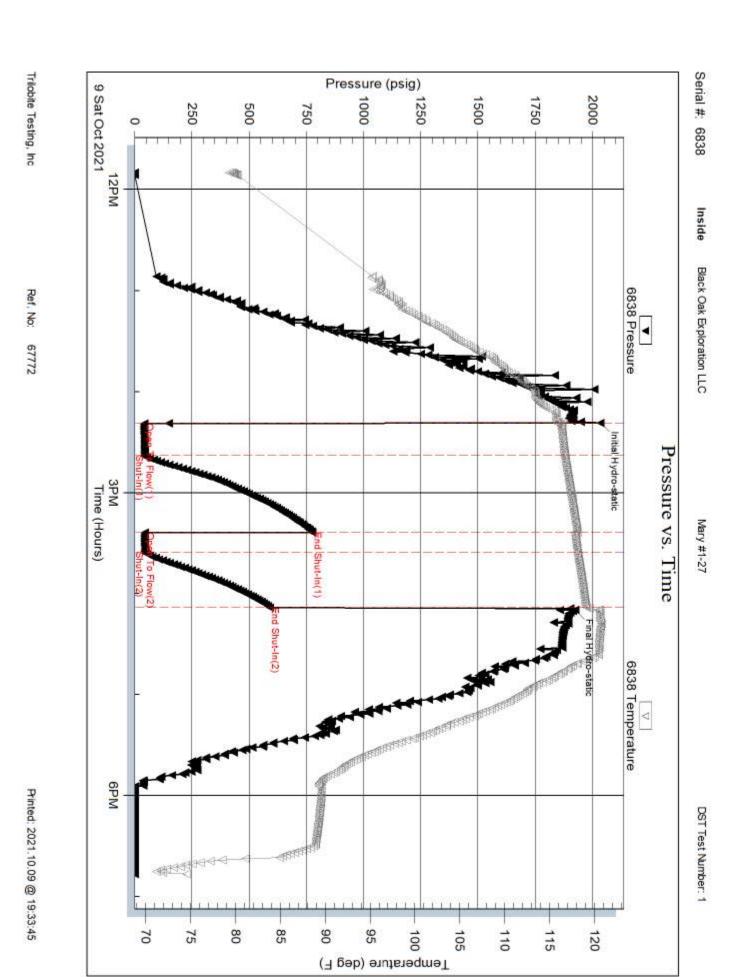
Total Length: 30.00 ft Total Volume: 0.148 bbl

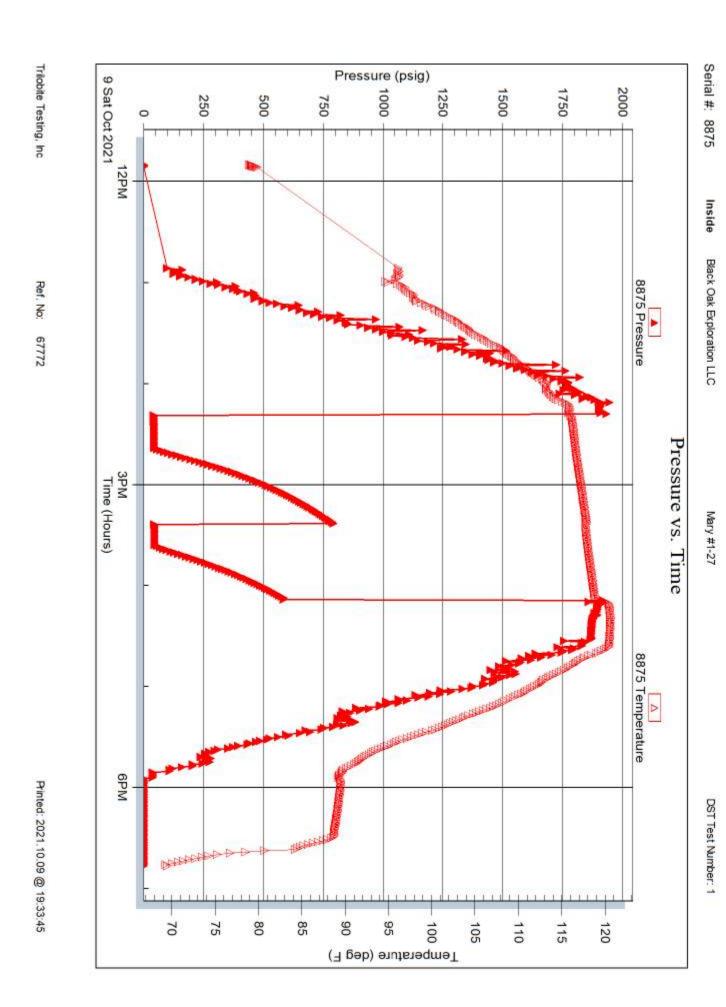
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM

Trilobite Testing, Inc Ref. No: 67772 Printed: 2021.10.09 @ 19:33:45







Black Oak Exploration LLC

1474 S St Paul ST Mary #1-27

Denver CO 80210+2514

ATTN: Clayton Cammozi Test Start: 2021.10.10 @ 04:15:00

GENERAL INFORMATION:

Formation: LKC B-D

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No ft (KB)

Time Tool Opened: 06:16:27 Time Test Ended: 11:24:47

Interval: 3990.00 ft (KB) To 4029.00 ft (KB) (TVD) Reference Elevations: 2950.00 ft (KB)

Total Depth: 4029.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: 3993.00 ft (KB) 300.06 psig @ Capacity: psig

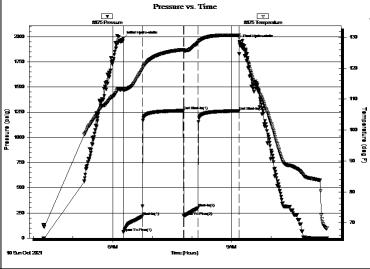
Start Date: 2021.10.10 End Date: 2021.10.10 Last Calib.: 2021.10.10 Start Time: 04:15:01 End Time: 2021.10.10 @ 06:16:07 11:24:47 Time On Btm: Time Off Btm: 2021.10.10 @ 09:12:17

TEST COMMENT: 30-IF-Tool slid 5' lost mud blow started @3" BOB 20 mins Built to 19"

60-ISI-No Return

20-FF-BOB 19 mins Built to 13"

60-FSI-No Return



	PRESSURE SUMMANT				
1	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1984.10	113.39	Initial Hydro-static	
	1	58.19	112.78	Open To Flow (1)	
	29	217.64	119.66	Shut-In(1)	
	91	1265.00	125.99	End Shut-In(1)	
	92	217.51	125.78	Open To Flow (2)	
	114	300.06	128.34	Shut-In(2)	
`	176	1263.26	130.60	End Shut-In(2)	
'	177	1950.17	128.14	Final Hydro-static	

PRESSURE SUMMARY

27-5s-31w Rawlins KS

84

Spencer J Staab

DST#: 2

2945.00 ft (CF)

Job Ticket: 67773

Tester:

Unit No:

Recovery

Length (ft)	Description	Volume (bbl)	
350.00	Water 100%W	2.74	
150.00	MCW 15%M 85%W	2.13	
120.00	Mud 100%M	1.70	
* Recovery from multiple tests			

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Ref. No: 67773 Printed: 2021.10.10 @ 16:18:47 Trilobite Testing, Inc



Black Oak Exploration LLC

Mary #1-27

1474 S St Paul ST Denver CO 80210+2514

Job Ticket: 67773

27-5s-31w Rawlins KS

DST#: 2

ATTN: Clayton Cammozi

Test Start: 2021.10.10 @ 04:15:00

GENERAL INFORMATION:

Formation: LKC B-D

Deviated: No Whipstock: Test Type: Conventional Bottom Hole (Reset) ft (KB)

Time Tool Opened: 06:16:27 Time Test Ended: 11:24:47 Tester: Spencer J Staab

Unit No: 84

2950.00 ft (KB)

3990.00 ft (KB) To 4029.00 ft (KB) (TVD) 4029.00 ft (KB) (TVD)

Reference Elevations:

2945.00 ft (CF)

Total Depth: Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6838 Press@RunDepth: Inside

psig @

3993.00 ft (KB)

Capacity: Last Calib.: psig

Start Date: 2021.10.10 End Date:

2021.10.10 11:24:47

Time On Btm:

2021.10.10

Start Time:

Interval:

04:15:01

End Time:

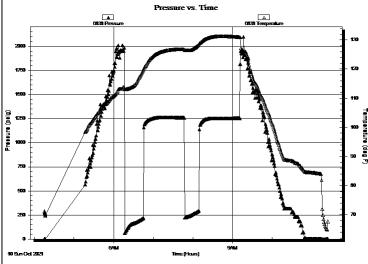
Time Off Btm:

TEST COMMENT: 30-IF-Tool slid 5' lost mud blow started @3" BOB 20 mins Built to 19"

60-ISI-No Return

20-FF-BOB 19 mins Built to 13"

60-FSI-No Return



1	Time	Pressure		Annotation
	(Min.)	(psig)	(deg F)	
,				
Tamparatura (dan F)				
,				
,				

Recovery

Length (ft) Description		Volume (bbl)		
350.00	Water 100%W	2.74		
150.00	MCW 15%M 85%W	2.13		
120.00	Mud 100%M	1.70		
* Recovery from multiple tests				

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Ref. No: 67773 Printed: 2021.10.10 @ 16:18:47 Trilobite Testing, Inc



FLUID SUMMARY

Black Oak Exploration LLC

27-5s-31w Rawlins KS

1474 S St Paul ST Denver CO 80210+2514 Mary #1-27

Job Ticket: 67773

DST#: 2

ATTN: Clayton Cammozi

Test Start: 2021.10.10 @ 04:15:00

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: 31000 ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 6.79 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	Water 100%W	2.740
150.00	MCW 15%M 85%W	2.126
120.00	Mud 100%M	1.701

Total Length: 620.00 ft Total Volume: 6.567 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM

RW=.244@65F

Trilobite Testing, Inc Ref. No: 67773 Printed: 2021.10.10 @ 16:18:48



Black Oak Exploration LLC

1474 S St Paul ST Denver CO 80210+2514

ATTN: Clayton Cammozi

27-5s-31w Rawlins KS

Mary #1-27

Job Ticket: 67774 DST#: 3

Test Start: 2021.10.11 @ 05:15:00

GENERAL INFORMATION:

Formation: LKC J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:49:12 Time Test Ended: 11:03:32

Interval: 4120.00 ft (KB) To 4150.00 ft (KB) (TVD)

Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset) Spencer J Staab

Unit No: 84

Reference Elevations:

2950.00 ft (KB)

psig

2945.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6838 Inside

Press@RunDepth: 4121.00 ft (KB) 22.66 psig @

Start Date: 2021.10.11 End Date: Start Time: 05:15:01 End Time:

Capacity: Last Calib.:

2021.10.11

11:03:32

Tester:

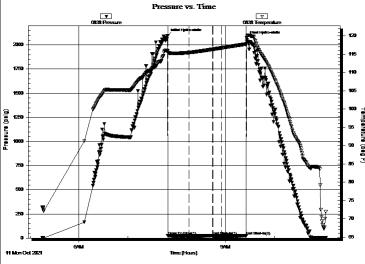
2021.10.11

Time On Btm: 2021.10.11 @ 07:48:52 2021.10.11 @ 09:25:47 Time Off Btm:

DDECCLIDE CLIMANADY

TEST COMMENT: 25-IF-Weak Surface Died @ 18 mins

30-ISI-No Return 10-FF-No Blow 30-FSI-No Return



	PRESSURE SUMMARY			
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2095.84	115.83	Initial Hydro-static
	1	25.93	115.35	Open To Flow (1)
	26	21.34	115.41	Shut-ln(1)
	56	24.29	116.31	End Shut-In(1)
	56	20.78	116.32	Open To Flow (2)
	66	22.66	116.68	Shut-ln(2)
(dec 5)	97	24.53	117.78	End Shut-In(2)
3	97	2070.71	118.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01
* Recovery from mul	tiple tests	

Gas Rat	es	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67774 Printed: 2021.10.11 @ 11:11:41



Black Oak Exploration LLC

Mary #1-27

1474 S St Paul ST Denver CO 80210+2514

Job Ticket: 67774 DST#: 3

27-5s-31w Rawlins KS

ATTN: Clayton Cammozi

Test Start: 2021.10.11 @ 05:15:00

GENERAL INFORMATION:

Formation: LKC J

Deviated: Whipstock: ft (KB) No

Time Tool Opened: 07:49:12 Time Test Ended: 11:03:32

4120.00 ft (KB) To 4150.00 ft (KB) (TVD)

Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Capacity:

Last Calib.:

Time On Btm:

Time Off Btm:

2021.10.11

11:02:52

Time

Reference Elevations:

2950.00 ft (KB)

psig

2945.00 ft (CF) KB to GR/CF: 5.00 ft

2021.10.11

Serial #: 8875 Outside

Interval:

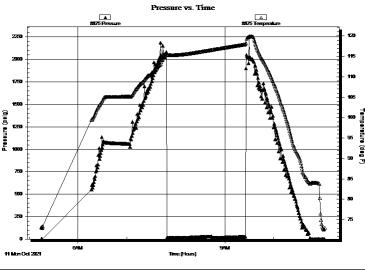
Press@RunDepth: 4121.00 ft (KB) psig @

Start Date: 2021.10.11 End Date:

Start Time: 05:15:01 End Time:

TEST COMMENT: 25-IF-Weak Surface Died @ 18 mins

30-ISI-No Return 10-FF-No Blow 30-FSI-No Return



	(Min.)	(psig)	(deg F)	
Tanna				
den (den E)				
,				

PRESSURE SUMMARY

Pressure Temp Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01
* Recovery from mult	iple tests	

Gas Rat	es	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Ref. No: 67774 Printed: 2021.10.11 @ 11:14:23 Trilobite Testing, Inc



FLUID SUMMARY

Black Oak Exploration LLC

27-5s-31w Rawlins KS

1474 S St Paul ST Denver CO 80210+2514 Mary #1-27

Job Ticket: 67774

DST#:3

ATTN: Clayton Cammozi

Test Start: 2021.10.11 @ 05:15:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:62.00 sec/qtCushion Volume:bbl

6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1200.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M	0.010

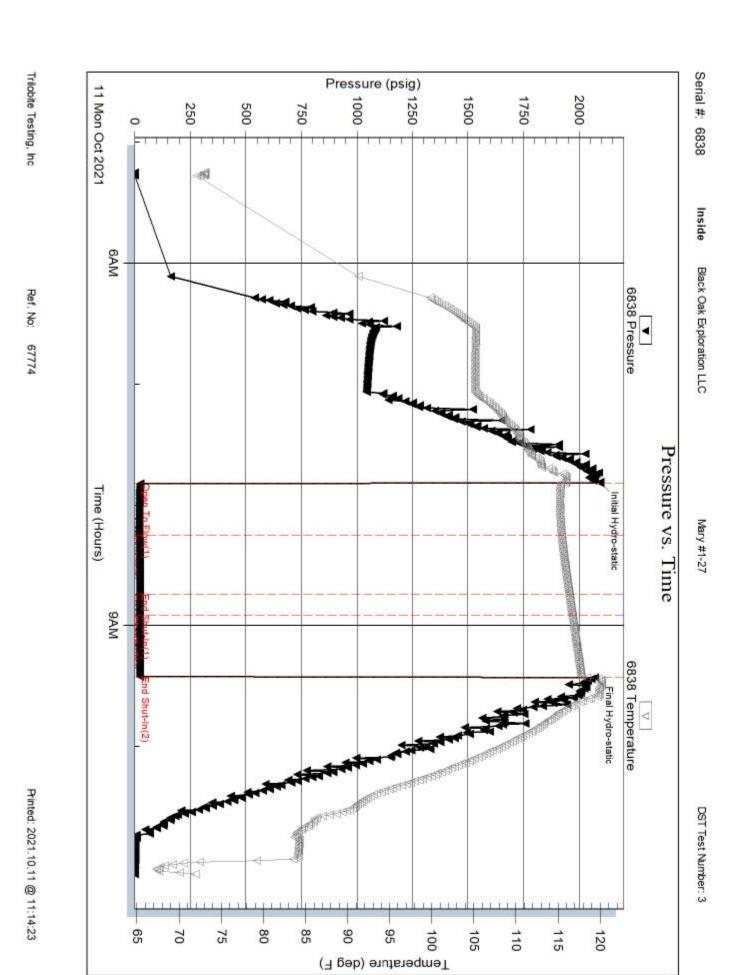
Total Length: 2.00 ft Total Volume: 0.010 bbl

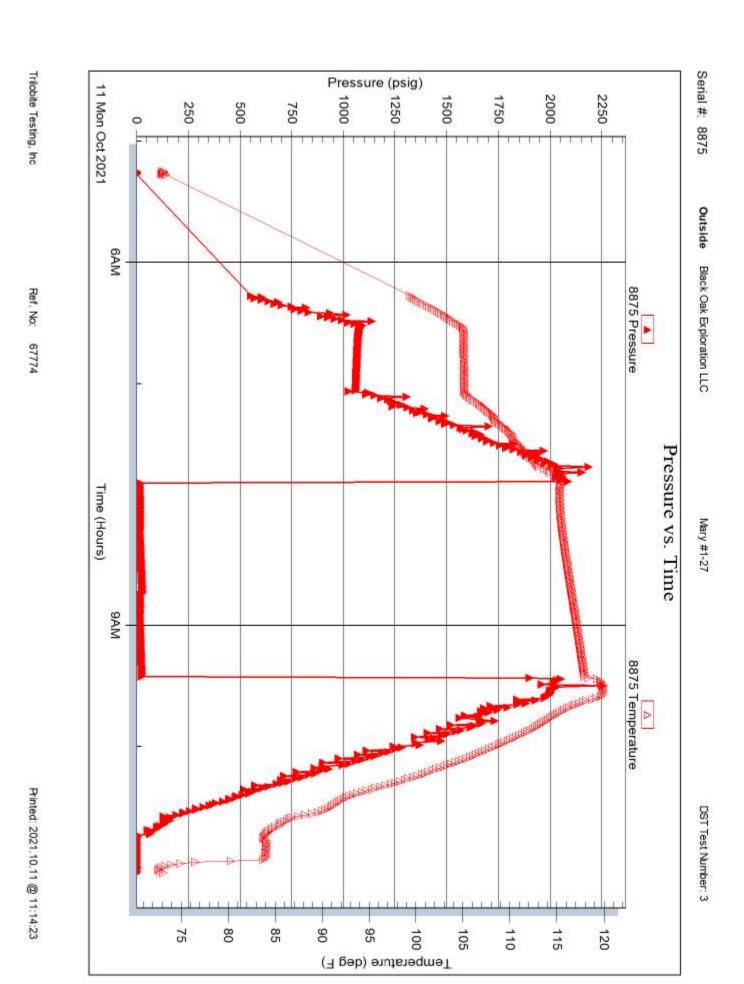
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

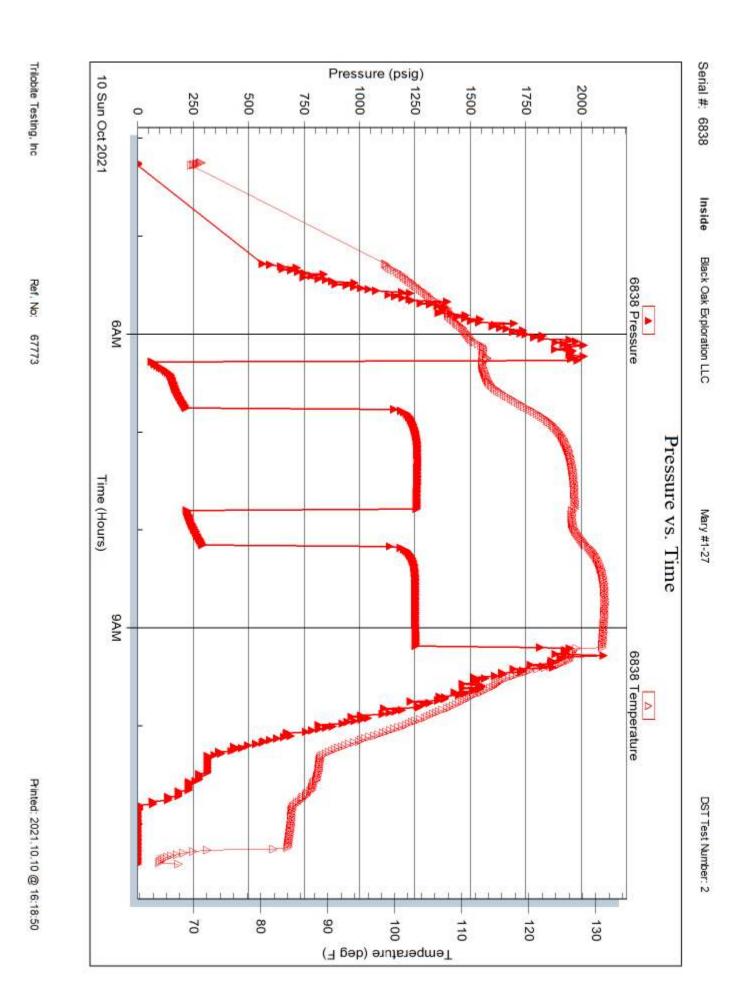
Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM

Trilobite Testing, Inc Ref. No: 67774 Printed: 2021.10.11 @ 11:14:23







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: Mary 1-27

Location: 2380 FNL & 2185 FWL

Sec. 27 - 5S - 31W

Rawlins Co., KS

Elevation: 2945' GL 2950' KB

Field: Wildcat

API No: 15-153-21270-0000

Surface Casing: 8 5/8" set @ 248' 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 (308-443-0495)

	DRILLING	WELL			COMPARI	SON WELL			COMPARIS	ON WELL		
No up or downhole	Black Oak	Exp, Mary	1-27		Murfin Drl	g, Withers 1-	-26		Murfin Drlg	, Erickson	1-21	
correction	2380 FNL	& 2185 FW	L		2280 FNL	& 1700 FWL	D&A		580 FSL &	680 FEL	D&A	
	Sec. 27 - 5	S - 31W			Sec. 26 - 5	is - 31w	Stru	ctural	Sec. 21 - 5s	s - 31w	Struc	ctural
	2950	KB			2945	KB	Relati	ionship	2890	KB	Relati	onship
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Stone Corral	2638	312	2662	288	2655	290	22	-2	2588	302	10	-14
Topeka	3746	-796	3750	-800	3750	-805	9	5	3674	-784	-12	-16
LeCompton	3858	-908	3863	-913	3861	-916	8	3	3785	-895	-13	-18
Heebner	3925	-975	3925	-975	3924	-979	4	4	3849	-959	-16	-16
Lansing	3972	-1022	3975	-1025	3972	-1027	5	2	3898	-1008	-14	-17
Lansing D	4013	-1063	4013	-1063	4015	-1070	7	7	3935	-1045	-18	-18
Lansing G	4060	-1110	4057	-1107	4060	-1115	5	8	3981	-1091	-19	-16
Lansing J	4132	-1182	4138	-1188	4132	-1187	5	-1	4058	-1168	-14	-20
BKC	4203	-1253	4203	-1253	4199	-1254	1	1	4126	-1236	-17	-17
Pawnee	4314	-1364	4318	-1368	4310	-1365	1	-3	4243	-1353	-11	-15
Fort Scott	4345	-1395	4350	-1400	4340	-1395	0	-5	4274	-1384	-11	-16
Cherokee	4396	-1446	4398	-1448	4390	-1445	-1	-3	4324	-1434	-12	-14
Mississippian	4526	-1576	4527	-1577	4505	-1560	-16	-17	4444	-1554	-22	-23
Total Depth	4600	-1650	4600	-1650	4546	-1601			4538	-1648		



EXPLORATION

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: MARY 1-27

Well Id:

Location: Section 27 - 5S - 31W Rawlins Co, Kansas

License Number: API # 15-153-21270 Region:

Surface Coordinates: 2380' FSL & 2185' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 2945' K.B. Elevation (ft): 2950' Logged Interval (ft): 3700 To: 4600' Total Depth (ft): 4600'

Formation: Lansing Kansas City

Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

GEOLOGIST

Company: BLACK OAK EXPLORATION, LLC

Address: 1474 S St Paul St Denver CO 80210

Name: TIM HEDRICK

Company: EARTH TECH OGL, INC

Address: Po BOX 683

Hooker, okla. 73945 580-754-0062 Cell

REMARKS

After reveiw of the E-logs, DST Data, and Geolog it was recommended to P&A the Mary 1-27 well. The samples will be bagged and delivered to the KGS library for processing.

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: Mary 1-27 Location: 2380 FNL & 2185 FWL Sec. 27 - 5S - 31W Rawlins Co., KS

Surface Casing: 8 5/8" set @ 248' KB API No: 15-153-21270-0000

Elevation: 2945' GL 2950' KB Field: Wildcat

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

Drilling Contractor: Murfin Drilling Co Rig #7. Rig Phone (785-443-5616), Tool Pusher Arturo Cabezas (308-443-0495)

	,										
DRILLING WELL			Г	COMPARISON WELI	SON WELL			COMPARISON WELI	ON WELL		
Black Oak Exp, Mary 1-27	y 1-27			Murfin Dri	Murfin Drlg, Withers 1-26	56		Murfin Drlg, Erickson 1-21	, Erickson	1-21	
2380 FNL & 2185 FWL	7			2280 FNL	2280 FNL & 1700 FWL D&A	D&A		580 FSL & 680 FEL	380 FEL	D&A	
Sec. 27 - 5S - 31W				Sec. 26 - 5s - 31w	s - 31w	Structural	tural	Sec. 21 - 5s - 31w	- 31w	Stru	Structural
2950 KB				2945 KB	KB	Relation	Relationship	2890 KB	KB	Relat	Relationship
Sample Sub-Sea Log Sub-Sea	Log	Sub-Se	æ	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
2638 312 2662 288		288		2655	290	22	-5	2588	302	10	-14
3746 -796 3750 -800	L	-800	П	3750	-805	6	5	3674	-784	-12	-16
3858 -908 3863 -913	L	-913		3861	-916	8	3	3785	-895	-13	-18
3925 -975 3925 -975		-975		3924	-979	4	4	3849	-959	-16	-16
3972 -1022 3975 -1025	H	-1025		3972	-1027	5	2	3898	-1008	-14	-17
4013 -1063 4013 -1063	Н	-1063		4015	-1070	7	7	3935	-1045	-18	-18
4060 -1110 4057 -1107	Н	-110	_	4060	-1115	2	8	3981	-1091	-19	-16
4132 -1182 4138 -1188		-118	8	4132	-1187	2	-1	4058	-1168	-14	-20
4203 -1253 4203 -1253		-125	က	4199	-1254	1	1	4126	-1236	-17	-17
4314 -1364 4318 -1368	Н	-136	8	4310	-1365	1	-3	4243	-1353	-11	-15
4345 -1395 4350 -1400		-140	0	4340	-1395	0	-5	4274	-1384	-11	-16
4396 -1446 4398 -1448	Н	-144	8	4390	-1445	-1	-3	4324	-1434	-12	-14
4526 -1576 4527 -1577	Н	-157	7	4505	-1560	-16	-17	4444	-1554	-22	-23
4600 -1650 4600 -1650	Н	-165	0	4546	-1601			4538	-1648		



Black Oak Exploration LLC

1474 S St Paul ST Denver CO 80210+2514

ATTN: Clayton Cammozi

27-5s-31w Rawlins KS

Mary #1-27

Job Ticket: 67772

DST#: 1

Test Start: 2021.10.09 @ 11:50:00

GENERAL INFORMATION:

Time Tool Opened: 14:18:47

Time Test Ended: 18:46:27

Formation:

Tor-LKC

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Reference Elevations: 2950.00 ft (KB)

2945.00 ft (CF)

psig

KB to GR/CF: 5.00 ft

Interval: Total Depth:

Start Time:

Hole Diameter:

3924.00 ft (KB) To 3994.00 ft (KB) (TVD)

3994.00 ft (KB) (TVD)

7.88 inches Hole Condition:

Serial #: 6838

Inside

Press@RunDepth: Start Date:

45.44 psig @ 2021.10.09 11:50:01

3927.00 ft (KB) End Date:

End Time:

2021.10.09

18:46:27

Capacity: Last Calib.:

2021.10.09

Time On Btm:

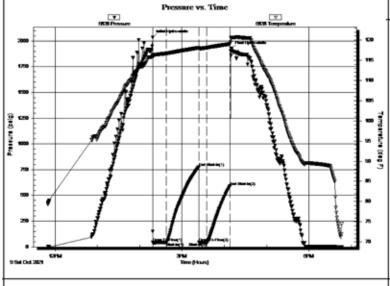
2021.10.09 @ 14:18:32

Time Off Btm:

2021.10.09 @ 16:09:57

TEST COMMENT: 20-IF-Slid 8' lost 10' mud Bled off 2.5" Surface Blow

45-ISI-No Return 10-FF-No Blow 30-FSI-No Return



PRESSURE	SUMMARY
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			120001	CE OOMIND (I CI
	Time	Pressure	Temp	Annotation
ı	(Min.)	(psig)	(deg F)	
ı	0	2034.95	116.41	Initial Hydro-static
ı	1	42.97	115.86	Open To Flow (1)
ı	20	44.13	116.71	Shut-ln(1)
ı	66	775.51	118.08	End Shut-In(1)
ı	66	45.70	117.78	Open To Flow (2)
ı	77	45.44	118.13	Shut-ln(2)
ı	110	590.65	119.08	End Shut-In(2)
ı	112	1924.74	120.60	Final Hydro-static
ı				
ı				
ı				
ı				
ı				

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.15

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



Black Oak Exploration LLC

1474 S St Paul ST Denver CO 80210+2514

ATTN: Clayton Cammozi

27-5s-31w Rawlins KS

Mary #1-27

Tester:

Unit No:

Job Ticket: 67773

Reference Elevations:

DST#: 2

2950.00 ft (KB)

Test Start: 2021.10.10 @ 04:15:00

GENERAL INFORMATION:

Formation: LKC B-D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:16:27 Time Test Ended: 11:24:47

Interval:

Hole Diameter:

3990.00 ft (KB) To 4029.00 ft (KB) (TVD)

Total Depth: 4029.00 ft (KB) (TVD)

7.88 inches Hole Condition:

2945.00 ft (CF)

Test Type: Conventional Bottom Hole (Reset)

Spencer J Staab

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: 300.06 psig @ 3993.00 ft (KB) Capacity: psig

 Start Date:
 2021.10.10
 End Date:
 2021.10.10
 Last Calib.:
 2021.10.10

 Start Time:
 04:15:01
 End Time:
 11:24:47
 Time On Btm:
 2021.10.10 @ 06:16:07

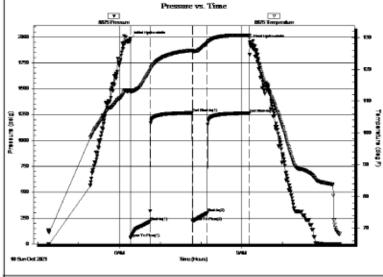
Time Off Btm: 2021.10.10 @ 09:12:17

TEST COMMENT: 30-IF-Tool slid 5' lost mud blow started @3" BOB 20 mins Built to 19"

60-ISI-No Return

20-FF-BOB 19 mins Built to 13"

60-FSI-No Return



PRESSURE SUMMARY

	I REGOOKE COMMINENT			
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1984.10	113.39	Initial Hydro-static
	1	58.19	112.78	Open To Flow (1)
	29	217.64	119.66	Shut-In(1)
	91	1265.00	125.99	End Shut-In(1)
	92	217.51	125.78	Open To Flow (2)
	114	300.06	128.34	Shut-In(2)
	176	1263.26	130.60	End Shut-In(2)
,	177	1950.17	128.14	Final Hydro-static
-				

Recovery

	Length (ft)	Description	Volume (bbl)
	350.00	Water 100%W	2.74
	150.00	MCW 15%M 85%W	2.13
	120.00	Mud 100%M	1.70
ı			

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Black Oak Exploration LLC

1474 S St Paul ST Denver CO 80210+2514 27-5s-31w Rawlins KS

Mary #1-27

Job Ticket: 67774

DST#: 3

ATTN: Clayton Cammozi Test Start: 2021.10.11 @ 05:15:00

GENERAL INFORMATION:

Formation: LKC J

Total Depth:

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 07:49:12 Tester: Spencer J Staab

Time Test Ended: 11:03:32 Unit No: 84

Interval: 4120.00 ft (KB) To 4150.00 ft (KB) (TVD) Reference Elevations: 2950.00 ft (KB)

2945.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6838 Inside

Press@RunDepth: 22.66 psig @ 4121.00 ft (KB) Capacity: psig

 Start Date:
 2021.10.11
 End Date:
 2021.10.11
 Last Calib.:
 2021.10.11

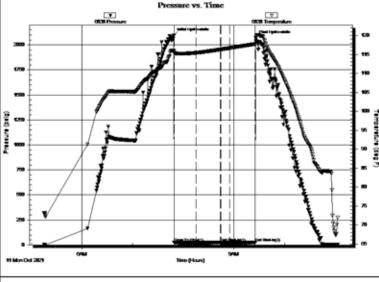
 Start Time:
 05:15:01
 End Time:
 11:03:32
 Time On Btm:
 2021.10.11 @ 07:48:52

Time Off Btm: 2021.10.11 @ 09:25:47

TEST COMMENT: 25-IF-Weak Surface Died @ 18 mins

4150.00 ft (KB) (TVD)

30-ISI-No Return 10-FF-No Blow 30-FSI-No Return



	PRESSURE SUMMARY			
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2095.84	115.83	Initial Hydro-static
	1	25.93	115.35	Open To Flow (1)
	26	21.34	115.41	Shut-In(1)
	56	24.29	116.31	End Shut-In(1)
	56	20.78	116.32	Open To Flow (2)
ė	66	22.66	116.68	Shut-In(2)
8	97	24.53	117.78	End Shut-In(2)
9	97	2070.71	118.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

Gas F	₹a	tes
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Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

