R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266.0745

January 5, 2016

Ms. Heather Patterson NMOCD District 2 811 S. First Street Artesia, New Mexico 88210 VIA EMAIL

RE: **Murchison – Polar Bear St. Com #4H Release**, final C-141 form Unit H, Section 1, T17S, R28E, Eddy County, API# 30-015-40130

Dear Ms. Patterson:

On behalf of Murchison Oil and Gas, R.T Hicks Consultants submits the attached final C-141 form for the above-referenced release. On November 11, a leak was discovered in a hose on a circulating pump at the above-referenced battery and approximately 66 barrels of oil were released into the bermed secondary containment. Fluid then breached the secondary containment, affecting approximately 290 ft² of the facility location outside the berm. 42 barrels of fluid the same day and then returned the next day and recovered 3 barrels more that settled from the gravel inside the berms. The release was observed to penetrate approximately 2 inches below the surface of the location.

The affected gravel and pad material (12 yd³) were removed from the location of disposed of at a permitted facility. A confirmation sample for laboratory analyses was collected from 3 inches below surface of the affected location (area shown in adjacent photo). The 5-point composite yielded 110 mg/kg DRO and 68 mg/kg MRO. BTEX and GRO were not present within detection limits.

With this submission, we respectfully request closure of the regulatory file associated with this release. Please contact me with any questions.



11/12/2015 Affected location after vacuum

Regards,

R.T. Hicks Consultants

Knistin Tope

Kristin Pope

Murchison Oil & Gas, State Land Office (Amber Groves) final C-141 form, lab analysis, disposal manifest

Copy: Enclosures: State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	Sunta I C.		07505	
Release	Notification	and	Corrective	Action

OPERATOR Initial Report Final Rep												
Name of Co	ompany		Murchi	ison Oil & Gas, I	nc.	Contact				-	(Greg Boans
Address	7250 Dalla	s Parkway, S	Suite 140	0, Plano, TX 750)24	Telephone N	No.				(575	5) 628-3932
Facility Nar	ne		Pola	r Bear St. Com #	ŧ4H	Facility Typ	e			I	Product	tion Battery
Surface Ow	ner	State of N	lew Mex	ico Mineral O	wner				API No	•	30-	-015-40130
				LOCA	τιο	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/	West Line	County		
Н	1	178	28E	2260		North	150		East		Eddy	,
		Latitude_	3	2°51'58.50"N		_ Longitude	e 104° 7'19.6	50"W_				
NATURE OF RELEASE												
Type of Release Oil Volume of Release 66 bbls Volume Recovered 45 b												
Source of Re	lease		11	· · · · · · · · · · · · · · · · · · ·		Date and H	lour of Occurrenc	e	Date and	Hour of Dis	covery	
Was Immedi	ate Notice (Tiven?	П	lose on circulating	pump	II/II/2015	1000000000000000000000000000000000000	1	11/11/201	15 10:00 a	m	
Was Immediate Notice Given? If YES, To Whom? Xes No Not Required Heather Patterson (voicemail)												
By Whom?				Kristin	Pope	Date and H	our			11	/12/20	15 10:00 am
Was a Water	course Reac	hed?			.1.	If YES, Vo	lume Impacting t	he Wat	ercourse.			
			Yes 🖂] No								
If a Watercou	irse was Im	pacted, Descri	be Fully.'	k								
n/a												
Describe Cau	ise of Proble	em and Remed	lial Action	n Taken.*								
Oil was lost secondary c	from a tar ontainmen	nk due to a fa t liner mater	uilure of a ial was e	a hose on the circ xposed. The hos	culatin e has	g pump. A been replace	vacuum truck re d.	emovec	l standing	fluid. A bi	each ii	n the
Describe Are	a Affected a	and Cleanup A	Action Tak	ken.*								
Oil was rele pad. Soil m material fro analysis of a not present	eased into t noisture ind m the surfa a 5-point c within dete	he bermed so licated that p ace of the loc omposite san ection limits.	econdary enetratio cation and nple from	containment sur n was less than 2 d the gravel in th n the affected loc	round inche e seco ation	ing the tanks es deep, chlo ndary contai pad at 3 inch	s (1,120 ft ²) and ride field tests o nment (12 yd ³) tes below surfac	onto a on 2-in- was re ce yielc	pproximat -deep samj moved and led 110 mg	ely 290 ft ² ples confir d replaced. g/kg DRO a	of the ned. 7 Labor and B7	location The affected ratory TEX was
I hereby certi regulations at public health should their of or the environ federal, state,	fy that the i ll operators or the envir operations h nment. In a or local law	nformation gir are required to ronment. The ave failed to a ddition, NMO ws and/or regu	ven above o report ar acceptanc dequately CD accep lations.	is true and completed ind/or file certain re- ce of a C-141 report investigate and re- part of a C-141 re- part of a C-141 re-	ete to ti lease n rt by th mediat eport d	he best of my otifications and e NMOCD m e contaminations of the second of the second second second second second second second second second second	knowledge and u nd perform correc arked as "Final Ro on that pose a thre e the operator of r	ndersta etive act eport" o eat to g respons	nd that purs tions for rele does not reli round waten ibility for co	uant to NM eases which eve the oper c, surface wa ompliance w	OCD ru may er rator of iter, hui vith any	les and Idanger liability man health other
G	6-	, D					OIL CON	SERV	ATION	DIVISIC	<u>DN</u>	
Signature: _		r 1-		Greg Bo	ans	Approved by	Environmental S	pecialis	it:			
Title:			Prod	luction Superintend	dent	Approval Dat	e:		Expiration	Date:		
E-mail Addre	ess:			gboans@jdmii.c	om	Conditions of	Approval:	1	Attached			
Date: 1/5/20)16	Pho	ne:	(575) 628-393	32							

* Attach Additional Sheets If Necessary

	1. at the	e te								
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Permian Basin	~	Hauler Driver Truck	t: S1 TH # 60	ORM CON:	STRUCT	ON	Well #: Field: Field #:	4H	2EMR 31	COM
		Card A Job Re	¥ ef#				Rig: County	NON-DR	ILLING	
Facility: CRI							·			
Product / Service			Trans.			uantity Ui	nits and some	民族物源。		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

December 10, 2015

Kristin Pope R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104 TEL: (575) 302-6755 FAX (505) 266-0745

RE: Polar Bear 4H release

OrderNo.: 1512196

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/4/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1512196

Date Reported: 12/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Project: Polar Bear 4H release

Client Sample ID: 5-pt. comp. @3 Collection Date: 12/3/2015 10:20:00 AM Received Date: 12/4/2015 9:20:00 AM

Lab ID: 1512196-001	Matrix:	SOIL	Re	ceived D	ate: 12	/4/2015 9:20:00 AM	
Analyses	Result	RL (Qual Uni	ts	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	s				Analyst	: KJH
Diesel Range Organics (DRO)	110	10	mg	/Kg	1	12/8/2015 4:12:00 PM	22651
Motor Oil Range Organics (MRO)	68	50	mg	/Kg	1	12/8/2015 4:12:00 PM	22651
Surr: DNOP	106	70-130	%F	REC	1	12/8/2015 4:12:00 PM	22651
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg	/Kg	1	12/8/2015 9:48:16 AM	22652
Surr: BFB	92.9	66.2-112	%F	REC	1	12/8/2015 9:48:16 AM	22652
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.048	mg	/Kg	1	12/8/2015 9:48:16 AM	22652
Toluene	ND	0.048	mg	/Kg	1	12/8/2015 9:48:16 AM	22652
Ethylbenzene	ND	0.048	mg	/Kg	1	12/8/2015 9:48:16 AM	22652
Xylenes, Total	ND	0.095	mg	/Kg	1	12/8/2015 9:48:16 AM	22652
Surr: 4-Bromofluorobenzene	123	80-120	S %F	REC	1	12/8/2015 9:48:16 AM	22652

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: *

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	R.T. Hic	ks Consulta	nts, LT	Ď							
Project:	Polar Be	ar 4H releas	se								
Sample ID	MB-22651	SampTy	/pe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 22	651	F	RunNo: 3	0678				
Prep Date:	12/7/2015	Analysis Da	ate: 12	2/8/2015	S	SeqNo: 9	36993	Units: mg/k	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		9.2		10.00		91.8	70	130			
Sample ID	LCS-22651	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 22	651	F	RunNo: 3	0678				
Prep Date:	12/7/2015	2015 Analysis Date: 12/8/2015 SeqNo: 936994 Units: mg/Kg									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	10	50.00	0	91.3	57.4	139			
Surr: DNOP		4.8		5.000		95.5	70	130			
Sample ID	MB-22702	SampTy	/pe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 22	702	F	RunNo: 3	0716				
Prep Date:	12/9/2015	Analysis Da	ate: 12	2/9/2015	S	SeqNo: 9	38274	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.3		10.00		92.7	70	130			
Sample ID	LCS-22702	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 22	702	F	RunNo: 3	0716				
Prep Date:	12/9/2015	Analysis Da	ate: 12	2/9/2015	S	38275	Units: %RE	с			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	4.5		5.000		90.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 2 of 4

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: R.T. Hi	cks Consulta	ants, LT	D							
Project: Polar B	ear 4H relea	se								
Sample ID MB-22652	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	е	
Client ID: PBS	Batch	n ID: 22	652	F	RunNo: 3	0702				
Prep Date: 12/7/2015	Analysis D	ate: 12	2/8/2015	5	SeqNo: 9	37695	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.9	66.2	112			
Sample ID LCS-22652	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	е	
Client ID: LCSS	Batch	n ID: 22	652	F	RunNo: 3	0702				
Prep Date: 12/7/2015	Analysis D	ate: 12	2/8/2015	5	SeqNo: 9 :	37696	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	79.6	122			
Surr: BFB	1000		1000		104	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 4

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

R.T. Hicks Consultants, LTD

Result

ND

SampType: MBLK

Batch ID: 22652

Analysis Date: 12/8/2015

PQL

0.050

SPK value SPK Ref Val

Polar Bear 4H release

Surr: 4-Bromofluorobenzene	1.2	0.9506	127

0.9506

0.9506

2.852

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Client:

Project:

Client ID:

Prep Date:

Analyte

Benzene

Sample ID MB-22652

PBS

12/7/2015

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded

1.0

1.1

3.1

0.048

0.048

0.095

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

76.2

75.8

78.9

80

134

137

133

120

2.83

3.00

0.685

0

Е Value above quantitation range

105

114

108

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

0

0

0

Reporting Detection Limit RL

TestCode: EPA Methe	od 8021B: Volatiles	
RunNo: 30702		
SeqNo: 937738	Units: mg/Kg	

RPDLimit

%RPD

Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	1.1		1.000		113	80	120			
Sample ID	LCS-22652	SampT	Гуре: LC	S	Tes	tCode: El					
Client ID:	LCSS	Batcl	h ID: 22	652	R	RunNo: 3	0702				
Prep Date:	12/7/2015	Analysis D	Date: 12	2/8/2015	S	SeqNo: 9	37739	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.050	1.000	0	90.7	80	120			
Toluene		0.90	0.050	1.000	0	90.1	80	120			
Ethylbenzene		0.93	0.050	1.000	0	92.5	80	120			
Xylenes, Total		2.6	0.10	3.000	0	87.5	80	120			
Surr: 4-Brom	ofluorobenzene	1.2		1.000		124	80	120			S
Sample ID	1512196-001AMS	SampT	Гуре: МS	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	5-pt. comp. @3	Batcl	h ID: 22	652	R	RunNo: 3	0702				
Prep Date:	12/7/2015	Analysis D	Date: 12	2/8/2015	S	SeqNo: 9	37741	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.048	0.9506	0	101	69.6	136			
Toluene		0.97	0.048	0.9506	0	102	76.2	134			
Ethylbenzene		1.1	0.048	0.9506	0	111	75.8	137			
Xylenes, Total		3.1	0.095	2.852	0	108	78.9	133			
Surr: 4-Brom	ofluorobenzene	1.3		0.9506		134	80	120			S
Sample ID	1512196-001AMSE) Samp1	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	5-pt. comp. @3	Batcl	h ID: 22	652	R	RunNo: 3	0702				
Prep Date:	ep Date: 12/7/2015 Analysis Date: 12/8/2015				SeqNo: 937742 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Donzono		0 99	0.048	0.9506	0	104	69 6	136	3 57	20	

%REC

LowLimit

HighLimit

Qual

Page 4 of 4

20

20

20

0

s

HALL Hall ENVIRONMENTAL ANALYSIS TEL. LABORATORY W	Environmental Analysis 4901 Albuquerqua 505-345-3975 FAX: 5 ebsite: www.hallenviro	Laborate Hawkins I NM 871 05-345-41 mental.c	ny NE 109 Sample 107 107	Sample Log-In Check List							
Client Name: RT HICKS Work C	order Number: 1512	96		RcptNo: 1							
Received by/date: 1 z /o	4/13		V 14								
Logged By: Joe Archuleta 12/4/201	5 9:20:00 AM				i I						
Completed By: Joe Archuleta 12/4/201	5 10:46:29 AM		1 U								
Reviewed By: 12/07/	15				.						
Chain of Custody	Vac		No 🗍	Not Present 🖈							
 Custody seals intact on sample bottles? 	Yes		No 🗍	Not Present							
2. Is Chain of Custody complete?	tes										
3. How was the sample delivered?	<u>Cor</u>	rier									
Log In				 1							
4. Was an attempt made to cool the samples?	Ye		Νο	NA 🗔							
5. Were all samples received at a temperature of $>0^{\circ}$	C to 6.0°C Yes		No 🗍								
6. Sample(s) in proper container(s)?	Ye	s 🛃	No 🗌								
7 Sufficient sample volume for indicated test(s)?	Ye		No 🗌								
8 Are samples (except VOA and ONG) properly prese	rved? Ye	s 🛃	No								
9. Was preservative added to bottles?	Ye	s 🗆	No 🛃	NA 🗔							
1	Ye	s 🗌	No 🗌	No VOA Vials 🛃							
10, VOA vials have zero headspace?	Y	s 🗌	No 🛃	· · · ·							
11. Were any sample containers received broken?	·	-		# of preserved bottles checked							
12. Does paperwork match bottle labels?	Ye	s 🖈	No 🖵 🏻	for pH: (<2 c	or >12 unless note						
(Note discrepancies on chain of custody)	- X	-	No 🗍	Adjusted?							
13. Are matrices correctly identified on Chain of Custon	y? Y(as 📼 🖂	No 🗌								
14. Is it clear what analyses were requested?			No 🗌	Checked by:							
15. Were all holding times able to be met? (If no, notify customer for authorization.)		-3 1									
Special <u>Handling (if applicable)</u>			_								
16. Was client notified of all discrepancies with this or	ler? Y	es 🗖	No	NA 🜌]						
Person Notified:	Date:										
By Whom:	Via:	eMail [🛾 Phone 🚺 Fax								
Regarding:											
Client Instructions:											
17. Additional remarks:											
18. <u>Cooler Information</u>	act Seal No. Se	il Date	Signed By	l							
Cooler No Temp "C Condition Seal Int	au Jeanno Je			1							

TAL	TORY							or N)	÷ (۲	Air Bubbles			 										
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