

75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

27 August 2021

David Bounds Hilcorp 382 Road 3100 Aztec, NM 87410 RE: Braden Head

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 15:30. If you need any further assistance, please feel free to contact me.

Sincerely,

Deblie Zufett

Debbie Zufelt Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-21-12.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

Laboratories		www.GreenAnalytical.com
Hilcorp	Project: Braden Head	
382 Road 3100	Project Name / Number: South	Reported:
Aztec NM, 87410	Project Manager: David Bounds	08/27/21 07:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Filan #1	2108199-01	Water	08/17/21 00:00	08/19/21 15:30	Q1, Q3

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Debbie Zufelt, Reports Manager Released to Imaging: 9/3/2021 3:43:07 PM The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

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Laboratories							www.Gre	eenAnalytica	l.com
Hilcorp 382 Road 3100 Aztec NM, 87410	Proje	ct Name / N	Project: Bra umber: Sou anager: Dav	ıth				Reporte 08/27/21 (
		210.9100	Filan #1 Area 9						
Analyte	Result	2108199	MDL	nd Water) Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Chloride*	58.2	100	4.22	mg/L	100	08/24/21 18:51	EPA300.0		AES
H*	10.9			pH Units	1	08/20/21 15:30	EPA150.1	H1	VJW
oH Temperature, degrees C	21.9			pH Units	1	08/20/21 15:30	EPA150.1	H1	VJW
Total Dissolved Solids*	5490	10.0		mg/L	1	08/20/21 16:35	EPA160.1		VJW
Sulfate*	3620	100	15.2	mg/L	100	08/24/21 18:51	EPA300.0		AES

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Notes and Definitions

Q3	Sample received without proper chemical preservation as requested by the method of analysis.
Q1	Sample received outside of acceptable temperature range for analyses requiring cold storage.
H1	Sample was received several days after collected and subsequently analyzed past hold time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
	*Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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Client: Hilcorp		Asset:	Sc	outh	Ph	one#	50	5_41	9-34	10	Tea	nto	De			
Address: 9A CR#	5793, Farmingto	n NM 8	7401			Mail A						mac	t Dav	a Be	oune	ds
						mail 7	laare	4 <u>ubu</u>	unus		orp.c	om				
CREER	ical Fries	Р	75 Su Durango, (hone:970- FAX: 970-	247-4220	3	PO	L Wo	ork C	rder		US	το	DY F	RECO	ORE)
24.00 Noia	Sample Location: (1)BumperSpring, (2)CompressorDischarge, (3)Flowline, (4)Meter, (5)Oil Tank (6)PigLauncher, (7)PigReceiver, (8)Pipeline, (9)Pit Tank, (10)PostFilter, (11)PreFilter (12)SeparatorInlet, (13)SeparatorOutlet, (14)SeparatorDump, (15)SWDInlet (16)SWDOutlet, (17)TransferPump, (18)ValveCan, (19)WaterTank, (20)Wellhead (21)Other															
	Sample Type:		(1)Casing (7)O2Gas	, (2)CO2G Tube (8)P	ine Ser	be, (3)	Coupor	n, (4)V	Vater,	(5)H2	SGas	Tube	, (6)Me	tals		
			(7)02Gas	· 0.00, (0)P	hese	2001, (8)resi	iual, (iu)Slu	uge, (11)So	lid, (1	2)Tubir	ig, (13)	Other	
		Co	llection	a belge en son dan glande store d					Pro	serv	ativo	.	٨٣	alver		Service - 1
Well Name (S		Area	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	Other:	ron and Manganese	Phosphate	Full Water API	Bredenhard
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Kangara	- Explese	8/2		08	30	Ó.	me	sla	,Ø	Jun	p	4 8	3/20/	21	0	830

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	45269		
	Action Type:		
	[UF-GA] Gas Analysis (GAS ANALYSIS)		

CONDITIONS		
Created By	Condition	Condition Date
mkuehling	tds 5490 please submit water analysis from production water	9/3/2021

CONDITIONS

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Action 45269