



Well Name: ROPCO 16-1H; BHD
 API #: 3004535455
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021096
 Cust No: 35825-10580

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	ROPCO 16-1H; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	30 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	E355516	Ambient Temp:	60 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004535455	Sample Method:	Purge & Fill
		Sample Date:	05/26/2021
		Sample Time:	8.45 AM
		Sampled By:	DANIEL RIOS
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0204

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.2402	1.1422	0.2470	0.00	0.0217
CO2	0.0194	0.0099	0.0030	0.00	0.0003
Methane	96.3752	49.1389	16.3670	973.39	0.5338
Ethane	1.1073	0.5646	0.2970	19.60	0.0115
Propane	0.1644	0.0838	0.0450	4.14	0.0025
Iso-Butane	0.0255	0.0130	0.0080	0.83	0.0005
N-Butane	0.0100	0.0051	0.0030	0.33	0.0002
I-Pentane	0.0041	0.0021	0.0020	0.16	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0539	0.0275	0.0240	2.84	0.0018
Total	100.0000	50.9871	16.9960	1001.28	0.5724

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.002	CYLINDER #:	6057
BTU/CU.FT IDEAL:	1003.6	CYLINDER PRESSURE:	9 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1005.6	ANALYSIS DATE:	06/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	988.1	ANALYSIS TIME:	08:13:34 AM
DRY BTU @ 15.025:	1025.7	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.5733		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 06/04/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	ROPCO 16-1H; BHD	BRADENHEAD	06/04/2021
Stn. No.:	3004535455		35825-10580
Mtr. No.:			

Smpl Date:	05/26/2021	08/23/2018
Test Date:	06/04/2021	08/29/2018
Run No:	HS2021096	HS180151
Nitrogen:	2.2402	4.3794
CO2:	0.0194	0.0190
Methane:	96.3752	94.4890
Ethane:	1.1073	0.9096
Propane:	0.1644	0.1418
I-Butane:	0.0255	0.0297
N-Butane:	0.0100	0.0083
I-Pentane:	0.0041	0.0043
N-Pentane:	0.0000	0.0000
Hexane+:	0.0539	0.0189
BTU:	1005.6	980.5
GPM:	16.9960	16.8370
SPG:	0.5733	0.5800



Well Name: ROPCO 16-1H; CSG

API #: 3004535455

Source: CASING

Sample Type: GAS

Analysis No: HS2021097

Cust No: 35825-10585

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: ROPCO 16-1H; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: E355516
 Formation:
 Cust. Stn. No.: 3004535455

Source: CASING
 Well Flowing: Y
 Pressure: 20 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/26/2021
 Sample Time: 8.45 AM
 Sampled By: BRAXTON S.
 Sampled by (CO): HILCORP

AREA 2 / RUN 0204

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7445	1.7259	0.1930	0.00	0.0169
CO2	1.0093	0.9985	0.1730	0.00	0.0153
Methane	71.3998	70.6374	12.1680	721.14	0.3955
Ethane	8.8339	8.7396	2.3750	156.33	0.0917
Propane	7.3562	7.2777	2.0370	185.09	0.1120
Iso-Butane	0.8783	0.8689	0.2890	28.56	0.0176
N-Butane	3.5104	3.4729	1.1130	114.52	0.0704
I-Pentane	1.0591	1.0478	0.3890	42.37	0.0264
N-Pentane	1.2962	1.2824	0.4720	51.96	0.0323
Hexane Plus	2.9123	2.8812	1.3060	153.51	0.0964
Total	100.0000	98.9323	20.5150	1453.49	0.8745

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0055
 BTU/CU.FT IDEAL: 1456.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1464.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1439.4
 DRY BTU @ 15.025: 1494.2
 REAL SPECIFIC GRAVITY: 0.879

CYLINDER #: 4035
 CYLINDER PRESSURE: 20 PSIG
 ANALYSIS DATE: 06/04/2021
 ANALYSIS TIME: 08:26:03 AM
 ANALYSIS RUN BY: PATRICIA KING

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 06/04/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: ROPCO 16-1H; CSG
Stn. No.: 3004535455
Mtr. No.:

CASING

06/04/2021
35825-10585

Smpl Date:	05/26/2021	08/23/2018
Test Date:	06/04/2021	08/29/2018
Run No:	HS2021097	HS180152
Nitrogen:	1.7445	1.5320
CO2:	1.0093	0.9819
Methane:	71.3998	71.7432
Ethane:	8.8339	8.9385
Propane:	7.3562	7.3029
I-Butane:	0.8783	0.8653
N-Butane:	3.5104	3.4078
I-Pentane:	1.0591	1.0062
N-Pentane:	1.2962	1.2273
Hexane+:	2.9123	2.9949
BTU:	1464.9	1464.6
GPM:	20.5150	20.5130
SPG:	0.8790	0.8761

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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

Action 30754

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 30754
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/18/2021