



Well Name: JICARILLA 14; BHD
 API #: 3003922343
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20250054
 Cust No: 35825-11655

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JICARILLA 14; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: JIC 120
 Formation: DK
 Cust. Stn. No.: 3003922343

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 131 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/23/2025
 Sample Time: 10.00 AM
 Sampled By: RON HOWARD
 Sampled by (CO):

AREA 14 / RUN 1406

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3542	0.3542	0.0390	0.00	0.0034
CO2	0.7274	0.7274	0.1250	0.00	0.0111
Methane	76.4625	76.4625	13.0100	772.27	0.4235
Ethane	13.2860	13.2860	3.5660	235.12	0.1379
Propane	5.2583	5.2583	1.4540	132.30	0.0801
Iso-Butane	0.9267	0.9267	0.3040	30.14	0.0186
N-Butane	1.3899	1.3899	0.4400	45.34	0.0279
I-Pentane	0.5550	0.5550	0.2040	22.20	0.0138
N-Pentane	0.3834	0.3834	0.1390	15.37	0.0096
Hexane Plus	0.6566	0.6566	0.2940	34.61	0.0217
Total	100.0000	100.0000	19.5750	1287.36	0.7476

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1290.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1295.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1272.9
 DRY BTU @ 15.025: 1321.3
 REAL SPECIFIC GRAVITY: 0.7502

CYLINDER #: 034
 CYLINDER PRESSURE: 31 PSIG
 ANALYSIS DATE: 06/06/2025
 ANALYSIS TIME: 09:04:04 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 06/11/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JICARILLA 14; BHD	BRADENHEAD	06/11/2025
Stn. No.:	3003922343	DK	35825-11655
Mtr. No.:			

Smpl Date:	05/23/2025	07/17/2019
Test Date:	06/06/2025	07/24/2019
Run No:	HS20250054	HS190181
Nitrogen:	0.3542	0.4185
CO2:	0.7274	0.5832
Methane:	76.4625	76.7155
Ethane:	13.2860	13.3557
Propane:	5.2583	5.2420
I-Butane:	0.9267	0.8914
N-Butane:	1.3899	1.3500
I-Pentane:	0.5550	0.5383
N-Pentane:	0.3834	0.3621
Hexane+:	0.6566	0.5433
BTU:	1295.4	1288.7
GPM:	19.5750	19.5240
SPG:	0.7502	0.7442



Well Name: JICARILLA 14; CSG
 API #: 3003922343
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20250053
 Cust No: 35825-11660

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JICARILLA 14; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: JIC 120
 Formation: DK
 Cust. Stn. No.: 3003922343

Source: CASING
 Well Flowing: Y
 Pressure: 131 PSIG
 Flow Temp: 70 DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: 62 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/23/2025
 Sample Time: 10.30 AM
 Sampled By: RON HOWARD
 Sampled by (CO):

AREA 14 / RUN 1406

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0348	0.0340	0.0040	0.00	0.0003
CO2	0.7690	0.7523	0.1320	0.00	0.0117
Methane	78.1369	76.4419	13.2920	789.18	0.4328
Ethane	12.8860	12.6065	3.4580	228.04	0.1338
Propane	5.3638	5.2474	1.4830	134.96	0.0817
Iso-Butane	0.9545	0.9338	0.3130	31.04	0.0192
N-Butane	0.0042	0.0041	0.0010	0.14	0.0001
I-Pentane	0.6104	0.5972	0.2240	24.42	0.0152
N-Pentane	0.4338	0.4244	0.1580	17.39	0.0108
Hexane Plus	0.8066	0.7891	0.3610	42.52	0.0267
Total	100.0000	97.8307	19.4260	1267.69	0.7322

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1270.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1275.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1253.1
 DRY BTU @ 15.025: 1300.8
 REAL SPECIFIC GRAVITY: 0.7346

CYLINDER #: 2050
 CYLINDER PRESSURE: 180 PSIG
 ANALYSIS DATE: 06/06/2025
 ANALYSIS TIME: 10:04:52 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 06/11/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JICARILLA 14; CSG	CASING	06/11/2025
Stn. No.:	3003922343	DK	35825-11660
Mtr. No.:			

Smpl Date:	05/23/2025	07/17/2019
Test Date:	06/06/2025	07/24/2019
Run No:	HS20250053	HS190182
Nitrogen:	0.0348	0.3951
CO2:	0.7690	0.6394
Methane:	78.1369	76.6569
Ethane:	12.8860	13.1458
Propane:	5.3638	5.2260
I-Butane:	0.9545	0.8977
N-Butane:	0.0042	1.3746
I-Pentane:	0.6104	0.5752
N-Pentane:	0.4338	0.3973
Hexane+:	0.8066	0.6920
BTU:	1275.3	1295.9
GPM:	19.4260	19.5660
SPG:	0.7346	0.7495



Well Name: JICARILLA 14; TBG
 API #: 3003922343
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20250059
 Cust No: 35825-11665

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: TUBING
Well Name: JICARILLA 14; TBG	Well Flowing: Y
County/State: RIO ARRIBA NM	Pressure: 94 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: JIC 120	Ambient Temp: DEG. F
Formation: DK	Flow Rate: MCF/D
Cust. Stn. No.: 3003922343	Sample Method: Purge & Fill
	Sample Date: 06/13/2025
	Sample Time: 11.30 AM
	Sampled By: RON HOWARD
	Sampled by (CO):
Heat Trace: N	
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3338	0.3370	0.0370	0.00	0.0032
CO2	0.7520	0.7593	0.1290	0.00	0.0114
Methane	76.1858	76.9247	12.9640	769.48	0.4220
Ethane	13.2514	13.3799	3.5570	234.51	0.1376
Propane	5.1773	5.2275	1.4320	130.27	0.0788
Iso-Butane	0.9397	0.9488	0.3090	30.56	0.0189
N-Butane	1.4148	1.4285	0.4480	46.16	0.0284
I-Pentane	0.5752	0.5808	0.2110	23.01	0.0143
N-Pentane	0.4068	0.4107	0.1480	16.31	0.0101
Hexane Plus	0.9632	0.9725	0.4310	50.77	0.0319
Total	100.0000	100.9697	19.6660	1301.06	0.7566

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.004	CYLINDER #:	6234
BTU/CU.FT IDEAL:	1304.1	CYLINDER PRESSURE:	73 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1309.3	ANALYSIS DATE:	06/23/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1286.5	ANALYSIS TIME:	10:52:18 AM
DRY BTU @ 15.025:	1335.5	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7594		

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: 06/25/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JICARILLA 14; TBG	TUBING	06/25/2025
Stn. No.:	3003922343	DK	35825-11665
Mtr. No.:			

Smpl Date:	06/13/2025	07/17/2019
Test Date:	06/23/2025	07/24/2019
Run No:	HS20250059	HS190183
Nitrogen:	0.3338	0.4364
CO2:	0.7520	0.7390
Methane:	76.1858	77.9336
Ethane:	13.2514	12.8812
Propane:	5.1773	4.8084
I-Butane:	0.9397	0.7671
N-Butane:	1.4148	1.1204
I-Pentane:	0.5752	0.4165
N-Pentane:	0.4068	0.2775
Hexane+:	0.9632	0.6199
BTU:	1309.3	1265.6
GPM:	19.6660	19.3560
SPG:	0.7594	0.7322

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General Information
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Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 478874

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 478874
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026