



Well Name: 29-7 #87; INT
 API #: 3003907588
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20230231
 Cust No: 35825-15420

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	29-7 #87; INT	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	66 PSIG
Location:		Flow Temp:	72 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3003907588	Sample Method:	Purge & Fill
	70-582-01	Sample Date:	08/08/2023
	AREA 10; RUN 1001	Sample Time:	8.40 AM
Heat Trace:	N	Sampled By:	MAX PINION
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1526	0.1530	0.0170	0.00	0.0015
CO2	1.2545	1.2578	0.2150	0.00	0.0191
Methane	82.1841	82.3970	13.9790	830.06	0.4552
Ethane	8.4114	8.4332	2.2570	148.86	0.0873
Propane	4.1644	4.1752	1.1510	104.78	0.0634
Iso-Butane	0.8841	0.8864	0.2900	28.75	0.0177
N-Butane	1.1767	1.1798	0.3720	38.39	0.0236
I-Pentane	0.4561	0.4573	0.1670	18.25	0.0114
N-Pentane	0.3569	0.3578	0.1300	14.31	0.0089
Hexane Plus	0.9592	0.9617	0.4290	50.56	0.0317
Total	100.0000	100.2592	19.0070	1233.95	0.7198

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036
BTU/CU.FT IDEAL:	1236.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1241.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1219.5
DRY BTU @ 15.025:	1266.0
REAL SPECIFIC GRAVITY:	0.7221

CYLINDER #:	6060
CYLINDER PRESSURE:	75 PSIG
ANALYSIS DATE:	08/11/2023
ANALYSIS TIME:	02:53:40 PM
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: 08/17/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	29-7 #87; INT	INTERMEDIATE CASING	08/17/2023
Stn. No.:	3003907588	MV	35825-15420
Mtr. No.:	70-582-01		

Smpl Date: 08/08/2023
Test Date: 08/11/2023
Run No: HS20230231

Nitrogen:	0.1526
CO2:	1.2545
Methane:	82.1841
Ethane:	8.4114
Propane:	4.1644
I-Butane:	0.8841
N-Butane:	1.1767
I-Pentane:	0.4561
N-Pentane:	0.3569
Hexane+:	0.9592
BTU:	1241.1
GPM:	19.0070
SPG:	0.7221



Well Name: 29-7 #87; CSG

API #: 3003907588

Source: CASING

Sample Type: GAS

Analysis No: HS20230230

Cust No: 35825-15415

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: 29-7 #87; CSG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV

Cust. Stn. No.: 3003907588

70-582-01

AREA 10; RUN 1001

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 66 PSIG

Flow Temp: 72 DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/08/2023

Sample Time: 8.40 AM

Sampled By: MAX PINION

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1425	0.1453	0.0160	0.00	0.0014
CO2	1.2398	1.2645	0.2120	0.00	0.0188
Methane	82.1607	83.7948	13.9750	829.82	0.4551
Ethane	8.3811	8.5478	2.2490	148.32	0.0870
Propane	4.1103	4.1920	1.1360	103.42	0.0626
Iso-Butane	0.9175	0.9357	0.3010	29.84	0.0184
N-Butane	1.2453	1.2701	0.3940	40.63	0.0250
I-Pentane	0.4475	0.4564	0.1640	17.90	0.0111
N-Pentane	0.3414	0.3482	0.1240	13.69	0.0085
Hexane Plus	1.0139	1.0341	0.4540	53.44	0.0336
Total	100.0000	101.9889	19.0250	1237.06	0.7215

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1239.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1244.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1222.7
 DRY BTU @ 15.025: 1269.3
 REAL SPECIFIC GRAVITY: 0.7238

CYLINDER #: 6028
 CYLINDER PRESSURE: 66 PSIG
 ANALYSIS DATE: 08/11/2023
 ANALYSIS TIME: 03:02:00 PM
 ANALYSIS RUN BY: ACEDA GOODNOH

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: 08/17/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	29-7 #87; CSG	CASING	08/17/2023
Stn. No.:	3003907588	MV	35825-15415
Mtr. No.:	70-582-01		

Smpl Date: 08/08/2023
Test Date: 08/11/2023
Run No: HS20230230

Nitrogen:	0.1425
CO2:	1.2398
Methane:	82.1607
Ethane:	8.3811
Propane:	4.1103
I-Butane:	0.9175
N-Butane:	1.2453
I-Pentane:	0.4475
N-Pentane:	0.3414
Hexane+:	1.0139
BTU:	1244.4
GPM:	19.0250
SPG:	0.7238

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1625 N. French Dr., Hobbs, NM 88240
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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 253388

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 253388
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas production casing and intermediate	9/15/2023