



OCD Received 9/17/2020

Well Name: SAN JUAN 29-7 #130; CSG
 API #: API #3003923776
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200185
 Cust No: 35825-12825

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-7 #130; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: API #3003923776
 95-440-01
 AREA 10 / RUN 1001
 Heat Trace: N
 Remarks:

Source: CASING
 Well Flowing: Y
 Pressure: 71 PSIG
 Flow Temp: 89 DEG. F
 Ambient Temp: 74 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/07/2020
 Sample Time: 8.44 AM
 Sampled By: MARC YATES
 Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1195	0.1188	0.0130	0.00	0.0012
CO2	1.5953	1.5864	0.2730	0.00	0.0242
Methane	94.9267	94.3963	16.1240	958.76	0.5258
Ethane	2.6750	2.6600	0.7170	47.34	0.0278
Propane	0.3694	0.3673	0.1020	9.29	0.0056
Iso-Butane	0.1205	0.1198	0.0400	3.92	0.0024
N-Butane	0.0603	0.0600	0.0190	1.97	0.0012
I-Pentane	0.0455	0.0452	0.0170	1.82	0.0011
N-Pentane	0.0162	0.0161	0.0060	0.65	0.0004
Hexane Plus	0.0716	0.0712	0.0320	3.77	0.0024
Total	100.0000	99.4411	17.3430	1027.52	0.5921

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1029.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1032.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1014.2
 DRY BTU @ 15.025: 1052.9
 REAL SPECIFIC GRAVITY: 0.5932

CYLINDER #: 6171
 CYLINDER PRESSURE: 374 PSIG
 ANALYSIS DATE: 08/12/2020
 ANALYSIS TIME: 04:29:46 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 09/11/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-7 #130; CSG
Stn. No.: API #3003923776
Mtr. No.: 95-440-01

CASING
DK

09/11/2020
35825-12825

Smpl Date: 08/07/2020
Test Date: 08/12/2020
Run No: HS200185

Nitrogen: 0.1195
CO2: 1.5953
Methane: 94.9267
Ethane: 2.6750
Propane: 0.3694
I-Butane: 0.1205
N-Butane: 0.0603
I-Pentane: 0.0455
N-Pentane: 0.0162
Hexane+: 0.0716

BTU: 1032.2
GPM: 17.3430
SPG: 0.5932



2030 Afton Place
Farmington, NM 87401
(505) 325-6622
GAS

Analysis No: HS200140
Cust No: 35825-12665

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 29-7 130; INTRM
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: API #3003923776
95-440-01
AREA 10 / RUN 1001
Heat Trace: N
Remarks:

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 82 PSIG
Flow Temp: 100 DEG. F
Ambient Temp: 76 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 07/30/2020
Sample Time: 9.43 AM
Sampled By: MARC YATES
Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1203	0.1198	0.0130	0.00	0.0012
CO2	1.8810	1.8739	0.3220	0.00	0.0286
Methane	94.1556	93.8018	15.9950	950.97	0.5215
Ethane	2.9369	2.9259	0.7870	51.97	0.0305
Propane	0.4723	0.4705	0.1300	11.88	0.0072
Iso-Butane	0.1795	0.1788	0.0590	5.84	0.0036
N-Butane	0.0932	0.0928	0.0290	3.04	0.0019
I-Pentane	0.0679	0.0676	0.0250	2.72	0.0017
N-Pentane	0.0225	0.0224	0.0080	0.90	0.0006
Hexane Plus	0.0708	0.0705	0.0320	3.73	0.0023
Total	100.0000	99.6240	17.4000	1031.06	0.5990

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT IDEAL: 1033.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1035.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1017.8
DRY BTU @ 15.025: 1056.5
REAL SPECIFIC GRAVITY: 0.6002

CYLINDER #: 4173
CYLINDER PRESSURE: 323 PSIG
ANALYSIS DATE: 08/05/2020
ANALYSIS TIME: 10:15:07 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 09/11/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-7 130; INTRM
Stn. No.: API #3003923776
Mtr. No.: 95-440-01

INTERMEDIATE
DK

09/11/2020
35825-12665

Smpl Date: 07/30/2020
Test Date: 08/05/2020
Run No: HS200140

Nitrogen: 0.1203
CO2: 1.8810
Methane: 94.1556
Ethane: 2.9369
Propane: 0.4723
I-Butane: 0.1795
N-Butane: 0.0932
I-Pentane: 0.0679
N-Pentane: 0.0225
Hexane+: 0.0708

BTU: 1035.8
GPM: 17.4000
SPG: 0.6002