



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

API 3004534824

Analysis No: HS180199

Cust No: 35825-10810

36.9480553 108.2999496

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE INDIANS A #55; TBG
County/State: SAN JUAN NM
Location:
Field: AREA 1 / AREA 106
Formation: PARADOX
Cust. Stn. No.: FR2701KC

Source: TUBING
Well Flowing: Y
Pressure: 232 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/05/2018
Sample Time: 10.40 AM
Sampled By: JOHN RUSSELL
Sampled by (CO): HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.4341	3.3939	0.3790	0.00	0.0332
CO2	9.4619	9.3510	1.6190	0.00	0.1438
Methane	79.9291	78.9926	13.5860	807.28	0.4427
Ethane	3.2104	3.1728	0.8610	56.81	0.0333
Propane	1.9826	1.9594	0.5480	49.88	0.0302
Iso-Butane	0.3645	0.3602	0.1200	11.85	0.0073
N-Butane	0.5292	0.5230	0.1670	17.26	0.0106
I-Pentane	0.2579	0.2549	0.0950	10.32	0.0064
N-Pentane	0.2004	0.1981	0.0730	8.03	0.0050
Hexane Plus	0.6299	0.6225	0.2820	33.20	0.0208
Total	100.0000	98.8284	17.7300	994.65	0.7334

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 997.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 999.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 982.5
DRY BTU @ 15.025: 1019.9
REAL SPECIFIC GRAVITY: 0.7353

CYLINDER #: 4080
CYLINDER PRESSURE: 183 PSIG
ANALYSIS DATE: 09/11/2018
ANALYSIS TIME: 03:24:04 PM
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: 09/18/2018

GC Method: C6+ Gas

NMCCD

SEP 18 2018

DISTRICT III

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HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

API 3004534824

Lease: UTE INDIANS A #55; TBG
Stn. No.: FR2701KC
Mtr. No.:

TUBING
PARADOX

09/18/2018
35825-10810

Smpl Date: 09/05/2018
Test Date: 09/11/2018
Run No: HS180199
Nitrogen: 3.4341
CO2: 9.4619
Methane: 79.9291
Ethane: 3.2104
Propane: 1.9826
I-Butane: 0.3645
N-Butane: 0.5292
I-Pentane: 0.2579
N-Pentane: 0.2004
Hexane+: 0.6299
BTU: 999.9
GPM: 17.7300
SPG: 0.7353



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

API 30045 34824

Analysis No: HS180197
Cust No: 35825-10800

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE INDIANS A #55; BHD
County/State: SAN JUAN NM
Location:
Field: AREA 1 / RUN 106
Formation: PARADOX
Cust. Stn. No.: FR2701KC

Source: BRADENHEAD
Well Flowing: Y
Pressure: 109 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/05/2018
Sample Time: 10.30 AM
Sampled By: JOHN RUSSELL
Sampled by (CO): HILCORP

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6269	1.5944	0.1790	0.00	0.0157
CO2	0.0137	0.0134	0.0020	0.00	0.0002
Methane	86.7107	84.9807	14.7380	875.78	0.4803
Ethane	6.5590	6.4281	1.7590	116.07	0.0681
Propane	3.5452	3.4745	0.9790	89.20	0.0540
Iso-Butane	0.3367	0.3300	0.1100	10.95	0.0068
N-Butane	0.7802	0.7646	0.2470	25.45	0.0157
I-Pentane	0.1543	0.1512	0.0570	6.17	0.0038
N-Pentane	0.1218	0.1194	0.0440	4.88	0.0030
Hexane Plus	0.1515	0.1485	0.0680	7.99	0.0050
Total	100.0000	98.0048	18.1830	1136.50	0.6526

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 1139.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1142.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1122.4
DRY BTU @ 15.025: 1165.2
REAL SPECIFIC GRAVITY: 0.6542

CYLINDER #: 6011
CYLINDER PRESSURE: 67 PSIG
ANALYSIS DATE: 09/11/2018
ANALYSIS TIME: 03:09:36 PM
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: 09/18/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

API 304534824

Lease: UTE INDIANS A #55; BHD
Stn. No.: FR2701KC
Mtr. No.:

BRADENHEAD
PARADOX

09/18/2018
35825-10800

Smpl Date: 09/05/2018
Test Date: 09/11/2018
Run No: HS180197
Nitrogen: 1.6269
CO2: 0.0137
Methane: 86.7107
Ethane: 6.5590
Propane: 3.5452
I-Butane: 0.3367
N-Butane: 0.7802
I-Pentane: 0.1543
N-Pentane: 0.1218
Hexane+: 0.1515
BTU: 1142.3
GPM: 18.1830
SPG: 0.6542



2030 Afton Place
Farmington, NM 87401
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API 3604534824

Analysis No: HS180198
Cust No: 35825-10805

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE INDIANS A #55; CSG
County/State: SAN JUAN NM
Location:
Field: AREA 1 / RUN 106
Formation: PARADOX
Cust. Stn. No.: FR2701KC

Source: CASING
Well Flowing: Y
Pressure: 242 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/05/2018
Sample Time: 10.50 AM
Sampled By: JOHN RUSSELL
Sampled by (CO): HILCORP

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.9644	1.6921	0.2170	0.00	0.0190
CO2	0.0100	0.0086	0.0020	0.00	0.0002
Methane	92.7192	79.8673	15.7560	936.46	0.5136
Ethane	1.8382	1.5834	0.4930	32.53	0.0191
Propane	0.9547	0.8224	0.2640	24.02	0.0145
Iso-Butane	0.3715	0.3200	0.1220	12.08	0.0075
N-Butane	0.6896	0.5940	0.2180	22.50	0.0138
I-Pentane	0.4300	0.3704	0.1580	17.20	0.0107
N-Pentane	0.3714	0.3199	0.1350	14.89	0.0093
Hexane Plus	0.6510	0.5608	0.2910	34.31	0.0215
Total	100.0000	86.1389	17.6560	1094.00	0.6291

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1096.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1099.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1080.3
DRY BTU @ 15.025: 1121.4
REAL SPECIFIC GRAVITY: 0.6305

CYLINDER #: 4095
CYLINDER PRESSURE: 236 PSIG
ANALYSIS DATE: 09/11/2018
ANALYSIS TIME: 02:55:30 PM
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: 09/18/2018

GC Method: C6+ Gas



API 3004534824

HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #55; CSG
Stn. No.: FR2701KC
Mtr. No.:

CASING
PARADOX

09/18/2018
35825-10805

Smpl Date: 09/05/2018
Test Date: 09/11/2018
Run No: HS180198

Nitrogen: 1.9644
CO2: 0.0100
Methane: 92.7192
Ethane: 1.8382
Propane: 0.9547
I-Butane: 0.3715
N-Butane: 0.6896
I-Pentane: 0.4300
N-Pentane: 0.3714
Hexane+: 0.6510

BTU: 1099.4
GPM: 17.6560
SPG: 0.6305