



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

30-045-26563

Analysis No: HS180066
Cust No: 35825-10265

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: LACKY B LS 12M; BHD
County/State: SAN JUAN NM
Location: F21-28N-09W
Field: AREA 2 / RUN 213
Formation: MV
Cust. Stn. No.: 95970

Source: BRADENHEAD
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/09/2018
Sample Time: 8.30 AM
Sampled By: MIKE WATKINS
Sampled by (CO): HILCORP

Heat Trace: N
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4194	0.4182	0.0460	0.00	0.0041
CO2	0.7983	0.7960	0.1370	0.00	0.0121
Methane	73.1693	72.9608	12.4570	739.01	0.4053
Ethane	12.3984	12.3630	3.3300	219.41	0.1287
Propane	7.5225	7.5010	2.0810	189.27	0.1145
Iso-Butane	1.4241	1.4200	0.4680	46.31	0.0286
N-Butane	2.1987	2.1924	0.6960	71.73	0.0441
I-Pentane	0.7060	0.7040	0.2590	28.25	0.0176
N-Pentane	0.5522	0.5506	0.2010	22.14	0.0138
Hexane Plus	0.8111	0.8088	0.3630	42.75	0.0268
Total	100.0000	99.7148	20.0380	1358.87	0.7956

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0045
BTU/CU.FT IDEAL: 1362.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1368.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1344.2
DRY BTU @ 15.025: 1395.4
REAL SPECIFIC GRAVITY: 0.7988

CYLINDER #: 5015
CYLINDER PRESSURE: 106 PSIG
ANALYSIS DATE: 07/13/2018
ANALYSIS TIME: 11:18:24 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

GC Method: C6+ Gas

Last Cal/Verify: 07/26/2018

NMOC

OCT 25 2018

DISTRICT III



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: LACKY B LS 12M; BHD
Stn. No.: 95970
Mtr. No.:

BRADENHEAD
MV

07/26/2018
35825-10265

Smpl Date: 07/09/2018
Test Date: 07/13/2018
Run No: HS180066
Nitrogen: 0.4194
CO2: 0.7983
Methane: 73.1693
Ethane: 12.3984
Propane: 7.5225
I-Butane: 1.4241
N-Butane: 2.1987
I-Pentane: 0.7060
N-Pentane: 0.5522
Hexane+: 0.8111
BTU: 1368.0
GPM: 20.0380
SPG: 0.7988

ENTERPRISE FIELD SERVICES LLC (SAN JUAN)
 Preparer Code: 135476534
 Statement Title: Measurement Audit Statement(Differential)
 MEAS Contact: BARRY MCDANIEL (505)599-3313
 STMT Contact: MARCUS WARE (713)381-7816

Accounting/Production Period: 09/2018
 Meter ID: 95970-01
 Meter Name: LACKEY B LS #12M
 BTU Basis: Dry
 Reporting Basis: MCF @ 14.730

HILCORP ENERGY COMPANY
 Recipient Code: 606410538
 Location Code: NA DRN
 Report Date/Time: 10/23/2018 13:52
 Federal Lease: NMSF-077106

CERTIFICATE OF ANALYSIS

Sample Id: 95970
 Sample Desc: LACKEY B LS #12M
 Effective Date: 05/01/2018 07:00
 Sample Date: 04/23/2018 07:54
 Analyzed Date:
 Sample Freq: SEMIANNUALLY

Sample Type: SPOT
 Sampled By:
 Analyzed By: FSLAB
 GPA Version: 2145-16

District: Meas 200-Pipe 200-Supv C
 Device: (No spec equip)
 Chrom ID: N/A

Sample Temp (F): 87.0
 Sample Press (PSIG): 59.0
 Press Base: 14.73

Component	Mole %	GPM	Others	Mole %	GPM
Methane	75.2938	0.0000	Carbon Dioxide	0.7465	0.0000
Ethane	12.0485	3.2349	* H2S	0.0000	0.0000
Propane	6.6111	1.8285	Nitrogen	0.4282	0.0000
Iso Butane	1.2225	0.4016	* Hydrogen	0.0000	0.0000
Butane	1.7320	0.5482	* Oxygen	0.0000	0.0000
Iso Pentane	0.5873	0.2156	* Helium	0.0000	0.0000
Pentane	0.4631	0.1685	* Argon	0.0000	0.0000
NeoPentane	0.0000	0.0000	* Carbon Monoxide	0.0000	0.0000
Hexane	0.8670	0.3885			
* Heptane	0.0000	0.0000	Sub Total Others	1.1747	0.0000
* Octane	0.0000	0.0000			
* Nonane	0.0000	0.0000			
* Decane	0.0000	0.0000			
Sub Total GPM	98.8253	6.7858			
Others	1.1747	0.0000			
Total	100.0000	6.7858			

Gravity: 0.7757
 Dry BTU: 1332.7
 Wet BTU: 1309.5

* Not Tested

30-045-20503