



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

Analysis No: EN170196
Cust No: 25400-11500

Well/Lease Information

Customer Name: ENERVEST
Well Name: STARR #1B; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 3004531068

OIL CONS. DIV DIST. 3

OCT 30 2017

Source: BRADENHEAD
Well Flowing: Y
Pressure: 13 PSIG
Flow Temp: DEG. F
Ambient Temp: 47 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/24/2017
Sample Time: 10.05 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6173	0.6153	0.0680	0.00	0.0060
CO2	0.0200	0.0199	0.0030	0.00	0.0003
Methane	93.5552	93.2457	15.8940	944.91	0.5182
Ethane	3.4430	3.4316	0.9230	60.93	0.0357
Propane	1.3732	1.3687	0.3790	34.55	0.0209
Iso-Butane	0.3244	0.3233	0.1060	10.55	0.0065
N-Butane	0.3423	0.3412	0.1080	11.17	0.0069
I-Pentane	0.1339	0.1335	0.0490	5.36	0.0033
N-Pentane	0.0843	0.0840	0.0310	3.38	0.0021
Hexane Plus	0.1064	0.1060	0.0480	5.61	0.0035
Total	100.0000	99.6692	17.6090	1076.45	0.6035

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1078.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1081.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1062.7
DRY BTU @ 15.025: 1103.2
REAL SPECIFIC GRAVITY: 0.6047

CYLINDER #: 101
CYLINDER PRESSURE: 15 PSIG
DATE RUN: 10/25/17 12:00 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: 10/25/2017

GC Method: C6+ Gas



ENERVEST
WELL ANALYSIS COMPARISON

Lease: STARR #1B; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

10/25/2017
25400-11500

Smpl Date:	10/24/2017	02/13/2015
Test Date:	10/25/2017	02/24/2015
Run No:	EN170196	EN150067
Nitrogen:	0.6173	0.6150
CO2:	0.0200	0.0060
Methane:	93.5552	94.4530
Ethane:	3.4430	3.0450
Propane:	1.3732	1.0760
I-Butane:	0.3244	0.2500
N-Butane:	0.3423	0.2680
I-Pentane:	0.1339	0.0970
N-Pentane:	0.0843	0.0610
Hexane+:	0.1064	0.1290
BTU:	1081.5	1069.9
GPM:	17.6090	17.5100
SPG:	0.6047	0.5969



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

Analysis No: EN170197
Cust No: 25400-11505

Well/Lease Information

Customer Name: ENERVEST
Well Name: STARR #1B; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 3004531068

Source: CASING
Well Flowing: Y
Pressure: 63 PSIG
Flow Temp: DEG. F
Ambient Temp: 50 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/24/2017
Sample Time: 10.30 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

OIL CONS. DIV DIST. 3
OCT 30 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3728	0.3589	0.0410	0.00	0.0036
CO2	0.0458	0.0441	0.0080	0.00	0.0007
Methane	79.7016	76.7212	13.5640	804.99	0.4415
Ethane	9.6619	9.3006	2.5940	170.99	0.1003
Propane	4.6556	4.4815	1.2880	117.14	0.0709
Iso-Butane	0.9570	0.9212	0.3140	31.12	0.0192
N-Butane	1.5809	1.5218	0.5000	51.57	0.0317
I-Pentane	0.8311	0.8000	0.3050	33.25	0.0207
N-Pentane	0.6922	0.6663	0.2520	27.75	0.0172
Hexane Plus	1.5011	1.4450	0.6720	79.12	0.0497
Total	100.0000	96.2606	19.5380	1315.93	0.7555

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
BTU/CU.FT IDEAL: 1319.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1324.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1301.4
DRY BTU @ 15.025: 1350.9
REAL SPECIFIC GRAVITY: 0.7583

CYLINDER #: 1
CYLINDER PRESSURE: 66 PSIG
DATE RUN: 10/25/17 12:00 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: 10/25/2017

GC Method: C6+ Gas



ENERVEST
WELL ANALYSIS COMPARISON

Lease: STARR #1B; CSG
Stn. No.:
Mtr. No.:

CASING

10/25/2017
25400-11505

Smpl Date:	10/24/2017	02/13/2015
Test Date:	10/25/2017	02/24/2015
Run No:	EN170197	EN150068
Nitrogen:	0.3728	0.4290
CO2:	0.0458	0.7520
Methane:	79.7016	79.6892
Ethane:	9.6619	9.4319
Propane:	4.6556	4.3890
I-Butane:	0.9570	0.8770
N-Butane:	1.5809	1.5730
I-Pentane:	0.8311	0.7880
N-Pentane:	0.6922	0.6970
Hexane+:	1.5011	1.3740
BTU:	1324.4	1302.1
GPM:	19.5380	19.4260
SPG:	0.7583	0.7561