



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

Analysis No: EN170208
Cust No: 25400-11510

Well/Lease Information

Customer Name: ENERVEST
Well Name: WILLIAMS #1; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 3004510590

OIL CONS. DIV DIST. 3

OCT 30 2017

Source: BRADENHEAD
Well Flowing: Y
Pressure: 36 PSIG
Flow Temp: DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/24/2017
Sample Time: 11.50 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2966	0.2933	0.0330	0.00	0.0029
CO2	0.0243	0.0240	0.0040	0.00	0.0004
Methane	92.8359	91.7915	15.7740	937.64	0.5142
Ethane	3.7137	3.6719	0.9950	65.72	0.0386
Propane	1.6726	1.6538	0.4620	42.08	0.0255
Iso-Butane	0.4983	0.4927	0.1630	16.20	0.0100
N-Butane	0.3408	0.3370	0.1080	11.12	0.0068
I-Pentane	0.2369	0.2342	0.0870	9.48	0.0059
N-Pentane	0.1229	0.1215	0.0450	4.93	0.0031
Hexane Plus	0.2580	0.2551	0.1150	13.60	0.0085
Total	100.0000	98.8750	17.7860	1100.77	0.6158

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1103.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1106.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1086.9
DRY BTU @ 15.025: 1128.3
REAL SPECIFIC GRAVITY: 0.6171

CYLINDER #: 6178
CYLINDER PRESSURE: 34 PSIG
DATE RUN: 10/26/17 11:50 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: 10/26/2017

GC Method: C6+ Gas

6



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

24 hr. Rush 34 #
10 PSIG Precharge

C6+ ☒ C9+ ☐ C12+ ☐ C12+ BTEX ☐ Helium ☐

Other

Date 10/24/17

Sampled By:(Co.)

EverVest

Time

11:50

☒ AM
☐ PM

Sampled by:(Person)

Leroy Martinez

Well Flowing:

☒ Yes ☐ No

Company:

EverVest

Heat Trace:

☐ Yes ☐ No

Well Name:

Williams #1

Flow Pressure (PSIG):

36.4

Location:

Flow Temp (°F):

N/A

County/State:

SAN JUAN

NM

Ambient Temp (°F):

65°

Formation:

Flow Rate (MCF/D):

N/A

Source: ☐ Meter Run ☐ Tubing ☐ Casing ☒ Bradenhead ☐ Other

Sample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other

Meter Number:

Cylinder Number:

60178

Contact:

Leroy Martinez 793-3217

Remarks:

API #3004510590



ENERVEST
WELL ANALYSIS COMPARISON

Lease: WILLIAMS #1; BHD
Stn. No.: API 3004510590
Mtr. No.:

BRADENHEAD

10/26/2017
25400-11510

Smpl Date:	10/24/2017	02/12/2015
Test Date:	10/26/2017	02/24/2015
Run No:	EN170208	EN150069
Nitrogen:	0.2966	0.6040
CO2:	0.0243	0.0080
Methane:	92.8359	91.1539
Ethane:	3.7137	4.4750
Propane:	1.6726	2.0200
I-Butane:	0.4983	0.5830
N-Butane:	0.3408	0.4050
I-Pentane:	0.2369	0.2790
N-Pentane:	0.1229	0.1510
Hexane+:	0.2580	0.3210
BTU:	1106.1	1122.5
GPM:	17.7860	17.9350
SPG:	0.6171	0.6306



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

Analysis No: EN170209
Cust No: 25400-11515

Well/Lease Information

Customer Name: ENERVEST
Well Name: WILLIAMS #1; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 3004510590

OIL CONS. DIV DIST. 3

OCT 30 2017

Source: CASING
Well Flowing: Y
Pressure: 74 PSIG
Flow Temp: DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/25/2017
Sample Time: 12.10 PM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2128	0.2100	0.0230	0.00	0.0021
CO2	0.6629	0.6541	0.1130	0.00	0.0101
Methane	82.0515	80.9631	13.9550	828.72	0.4545
Ethane	9.7013	9.5726	2.6030	171.68	0.1007
Propane	3.7991	3.7487	1.0500	95.59	0.0578
Iso-Butane	0.7243	0.7147	0.2380	23.55	0.0145
N-Butane	1.0365	1.0228	0.3280	33.81	0.0208
I-Pentane	0.4289	0.4232	0.1570	17.16	0.0107
N-Pentane	0.2927	0.2888	0.1060	11.73	0.0073
Hexane Plus	1.0900	1.0755	0.4880	57.45	0.0361
Total	100.0000	98.6735	19.0610	1239.71	0.7146

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1242.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1246.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1225.2
DRY BTU @ 15.025: 1271.9
REAL SPECIFIC GRAVITY: 0.7168

CYLINDER #: 5031
CYLINDER PRESSURE: 74 PSIG
DATE RUN: 10/26/17 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: 10/26/2017

GC Method: C6+ Gas



a 24 hr. Rush
2030 Afton Place, Farmington, NM 87401 - (505) 325-6622

****10 PSIG Precharge****

C6+ ☒ C9+ ☐ C12+ ☐ C12+ BTEX ☐ Helium ☐

Other

Date 10/25/17
Time 12:10 ☐ AM ☒ PM

Sampled By: (Co.) EverVest

Sampled by: (Person) Leroy Martinez

Well Flowing: ☒ Yes ☐ No

Company: EverVest

Heat Trace: ☐ Yes ☐ No

Well Name: Williams #1

Flow Pressure (PSIG): 74

Location:

Flow Temp (°F): NA

County/State: SAN JUAN NM

Ambient Temp (°F): 65°

Formation:

Flow Rate (MCF/D): NA

Source: ☐ Meter Run ☐ Tubing ☒ Casing ☐ Bradenhead ☐ Other

Sample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other

Meter Number:

Cylinder Number: 5031

Contact: Leroy Martinez 793-3217

Remarks: API # 3004510590



ENERVEST
WELL ANALYSIS COMPARISON

Lease: WILLIAMS #1; CSG
Stn. No.: API 3004510590
Mtr. No.:

CASING

10/26/2017
25400-11515

Smpl Date:	10/25/2017	02/12/2015
Test Date:	10/26/2017	02/24/2015
Run No:	EN170209	EN150070
Nitrogen:	0.2128	0.1960
CO2:	0.6629	0.6250
Methane:	82.0515	82.0942
Ethane:	9.7013	9.7659
Propane:	3.7991	3.8880
I-Butane:	0.7243	0.7290
N-Butane:	1.0365	1.0540
I-Pentane:	0.4289	0.4210
N-Pentane:	0.2927	0.2980
Hexane+:	1.0900	0.9290
BTU:	1246.9	1242.9
GPM:	19.0610	19.0370
SPG:	0.7168	0.7133