

Natural Gas Analysis Report **SAN JUAN DIVISION**

JUN 17 2016

Sample Information

30-039-20140

Sample Information	
Sample Name	JICARILLA APACHE 14 BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2016-05-24 11:30:54

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal / 1000 cu.ft.)
Nitrogen	8.8862	0.0	0.08595	1.082
Oxygen	3.5243	0.0	0.03894	0.346
Methane	0.1192	1.2	0.00066	0.022
Carbon Dioxide	0.6895	0.0	0.01048	0.130
Ethane	0.0023	0.0	0.00002	0.001
Propane	0.0012	0.0	0.00002	0.000
I-Butane	1.8098	59.0	0.03632	0.656
N-Butane	5.7184	187.0	0.11476	1.996
I-Pentane	2.3101	92.6	0.05755	0.935
N-Pentane	3.9240	157.7	0.09775	1.575
Hexanes	10.3223	492.1	0.30713	4.699
Heptanes	35.4201	1953.5	1.22543	18.092
Octanes	23.4891	1471.2	0.92641	13.322
Nonanes	3.7835	265.3	0.16754	2.357
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	4679.7	3.06895	45.214

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	70.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	5182.1	5088.1
Relative Density (G), Real	3.3970	3.3473
Compressibility (Z) Factor	0.9031	0.9037
Total GPM	45.214	44.504

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	JICARILLA APACHE 14 CASEING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2016-05-24 11:22:54

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.7425	0.0	0.00718	0.082
Oxygen	0.0367	0.0	0.00041	0.003
Methane	79.4836	804.6	0.44026	13.521
Carbon Dioxide	0.5481	0.0	0.00833	0.094
Ethane	10.4293	185.0	0.10828	2.799
Propane	5.1151	129.0	0.07788	1.414
I-Butane	0.8353	27.2	0.01676	0.274
N-Butane	1.2780	41.8	0.02565	0.404
I-Pentane	0.4969	19.9	0.01238	0.182
N-Pentane	0.3993	16.0	0.00995	0.145
Hexanes	0.2117	10.1	0.00630	0.087
Heptanes	0.3210	17.7	0.01111	0.149
Octanes	0.0841	5.3	0.00332	0.043
Nonanes	0.0184	1.3	0.00081	0.010
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1258.0	0.72860	19.208

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	70.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	1262.6	1241.1
Relative Density (G), Real	0.7309	0.7294
Compressibility (Z) Factor	0.9964	0.9960
Total GPM	19.208	18.981



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6179
<http://omnrd.state.nm.us/ocd/District/IV3district.htm>

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 5-10-16 Operator XTO Energy API #30-0 39-20140
Property Name Jicarilla Apache Well No. 14 Location: Unit SW/SW Section 34M Township 6N Range 05W
Well Status (Shut-In or Producing) Initial PSI: Tubing 0 Intermediate NA Casing 78 Bradenhead 27

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE					
	BH	Bradenhead	INTERM	Int	Csg	
TIME						
5 min	0		78			
10 min	0		78			
15 min	0		78			
20 min						
25 min						
30 min						

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	✓
Nothing	
Gas	✓
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE NA

REMARKS: blew down to nothing in 5 seconds through 2" valve

By Brandon Noble
Lease operator
(Position)

Witness _____

E-mail address _____