



OIL CONS. DIV DIST. 3
JUL 26 2016

30-039-20594

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

Analysis No: AR160008
Cust No: 99035-10035

Well/Lease Information

Customer Name: ARAPAHOE DRILLING, CO.
Well Name: SCHALK 52 #1; CSG
County/State: RIO ARRIBA NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 06/15/2016
Sampled By: SCOTT RODGERS
Foreman/Engr.: JACK EVANS

Remarks: SCHALK DEVELOPMENT

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.383	0.0420	0.00	0.0037
CO2	0.329	0.0560	0.00	0.0050
Methane	81.350	13.8390	821.63	0.4506
Ethane	8.091	2.1710	143.19	0.0840
Propane	5.609	1.5510	141.13	0.0854
Iso-Butane	1.279	0.4200	41.59	0.0257
N-Butane	1.428	0.4520	46.59	0.0287
I-Pentane	0.440	0.1610	17.60	0.0110
N-Pentane	0.358	0.1300	14.35	0.0089
Hexane Plus	0.733	0.3280	38.64	0.0243
Total	100.000	19.1500	1264.72	0.7272

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1272.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1250.3
REAL SPECIFIC GRAVITY: 0.7296

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1265.5
DRY BTU @ 14.696: 1269.5
DRY BTU @ 14.730: 1272.4
DRY BTU @ 15.025: 1297.9

CYLINDER #: 4008
CYLINDER PRESSURE: 167 PSIG
DATE RUN: 6/16/16 12:00 AM
ANALYSIS RUN BY: PATRICIA KING



ARAPAHOE DRILLING, CO.
WELL ANALYSIS COMPARISON

Lease: SCHALK 52 #1; CSG
Stn. No.:
Mtr. No.:

CASING

06/17/2016
99035-10035

Smpl Date: 06/15/2016
Test Date: 06/16/2016
Run No: AR160008

Nitrogen: 0.383

CO2: 0.329

Methane: 81.350

Ethane: 8.091

Propane: 5.609

I-Butane: 1.279

N-Butane: 1.428

I-Pentane: 0.440

N-Pentane: 0.358

Hexane+: 0.733

BTU: 1272.4

GPM: 19.1500

SPG: 0.7296



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

Analysis No: AR160007
Cust No: 99035-10030

Well/Lease Information

Customer Name: ARAPAHOE DRILLING, CO.
Well Name: SCHALK 52 #1; BHD
County/State: RIO ARRIBA NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 06/15/2016
Sampled By: SCOTT RODGERS
Foreman/Engr.: JACK EVANS

Remarks: SCHALK DEVELOPMENT

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.241	0.0270	0.00	0.0023
CO2	0.404	0.0690	0.00	0.0061
Methane	83.771	14.2460	846.09	0.4640
Ethane	7.247	1.9440	128.25	0.0752
Propane	4.166	1.1510	104.82	0.0634
Iso-Butane	1.283	0.4210	41.72	0.0257
N-Butane	1.651	0.5220	53.86	0.0331
I-Pentane	0.380	0.1390	15.20	0.0095
N-Pentane	0.322	0.1170	12.91	0.0080
Hexane Plus	0.535	0.2390	28.20	0.0177
Total	100.000	18.8750	1231.05	0.7052

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.6
REAL SPECIFIC GRAVITY: 0.7073

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1231.4
DRY BTU @ 14.696: 1235.2
DRY BTU @ 14.730: 1238.1
DRY BTU @ 15.025: 1262.9

CYLINDER #: 7039
CYLINDER PRESSURE: 87 PSIG
DATE RUN: 6/16/16 7:54 AM
ANALYSIS RUN BY: PATRICIA KING



ARAPAHOE DRILLING, CO.
WELL ANALYSIS COMPARISON

Lease: SCHALK 52 #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

06/17/2016
99035-10030

Smpl Date: 06/15/2016
Test Date: 06/16/2016
Run No: AR160007

Nitrogen: 0.241
CO2: 0.404
Methane: 83.771
Ethane: 7.247
Propane: 4.166
I-Butane: 1.283
N-Butane: 1.651
I-Pentane: 0.380
N-Pentane: 0.322
Hexane+: 0.535

BTU: 1238.1
GPM: 18.8750
SPG: 0.7073

CS6

	CS6	BH	DTN
2004	150	35	
2007	180	40	DTN
2010	175	-0-	-0-
2013	191	-0-	-0-