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

Analysis No: DU150702
Cust No: 23000-22615

30-045-10530

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: LA ROSE #1; CSG
County/State: NM
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.:

Source: CASING
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 11/09/2015
Sampled By:
Foreman/Engr.: JIMMY DAVIS

OIL CONS. DIV DIST. 3
NOV 19 2015

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.347	0.0380	0.00	0.0034
CO2	1.423	0.2440	0.00	0.0216
Methane	81.054	13.7830	818.65	0.4490
Ethane	10.728	2.8780	189.85	0.1114
Propane	4.130	1.1410	103.91	0.0629
Iso-Butane	0.624	0.2050	20.29	0.0125
N-Butane	0.969	0.3060	31.61	0.0194
I-Pentane	0.296	0.1090	11.84	0.0074
N-Pentane	0.205	0.0750	8.22	0.0051
Hexane Plus	0.224	0.1000	11.81	0.0074
Total	100.000	18.8790	1196.18	0.7001

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z): 1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1202.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1182.0
REAL SPECIFIC GRAVITY: 0.7021

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

DRY BTU @ 14.650: 1196.4
DRY BTU @ 14.696: 1200.1
DRY BTU @ 14.730: 1202.9
DRY BTU @ 15.025: 1227.0

CYLINDER #: 7016
CYLINDER PRESSURE: 91 PSIG
DATE RUN: 11/11/15 8:24 AM
ANALYSIS RUN BY: DAWN BLASSINGAME

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease:	LA ROSE #1; CSG	CASING	11/12/2015
Stn. No.:		DAKOTA	23000-22615
Mtr. No.:			

Smpl Date:	11/09/2015
Test Date:	11/11/2015
Run No:	DU150702
Nitrogen:	0.347
CO2:	1.423
Methane:	81.054
Ethane:	10.728
Propane:	4.130
I-Butane:	0.624
N-Butane:	0.969
I-Pentane:	0.296
N-Pentane:	0.205
Hexane+:	0.224
BTU:	1202.9
GPM:	18.8790
SPG:	0.7021

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

Analysis No: DU150701
Cust No: 23000-22610

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	BRADENHEAD
Well Name:	LA ROSE #1; BHD	Pressure:	PSIG
County/State:	NM	Sample Temp:	DEG. F
Location:		Well Flowing:	
Field:		Date Sampled:	11/09/2015
Formation:	DAKOTA	Sampled By:	
Cust. Stn. No.:		Foreman/Engr.:	JIMMY DAVIS

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.448	0.0490	0.00	0.0043
CO2	0.014	0.0020	0.00	0.0002
Methane	96.304	16.3570	972.67	0.5334
Ethane	3.141	0.8420	55.58	0.0326
Propane	0.029	0.0080	0.73	0.0004
Iso-Butane	0.012	0.0040	0.39	0.0002
N-Butane	0.006	0.0020	0.20	0.0001
I-Pentane	0.005	0.0020	0.20	0.0001
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.041	0.0180	2.16	0.0014
Total	100.000	17.2840	1031.93	0.5729

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0021
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1036.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1018.5
REAL SPECIFIC GRAVITY:	0.5738

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

DRY BTU @ 14.650:	1030.9	CYLINDER #:	4081
DRY BTU @ 14.696:	1034.1	CYLINDER PRESSURE:	69 PSIG
DRY BTU @ 14.730:	1036.5	DATE RUN:	11/11/15 8:22 AM
DRY BTU @ 15.025:	1057.3	ANALYSIS RUN BY:	PATRICIA KING

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease:	LA ROSE #1; BHD	BRADENHEAD	11/12/2015
Stn. No.:		DAKOTA	23000-22610
Mtr. No.:			

Smpl Date:	11/09/2015
Test Date:	11/11/2015
Run No:	DU150701
Nitrogen:	0.448
CO2:	0.014
Methane:	96.304
Ethane:	3.141
Propane:	0.029
I-Butane:	0.012
N-Butane:	0.006
I-Pentane:	0.005
N-Pentane:	0.000
Hexane+:	0.041
BTU:	1036.5
GPM:	17.2840
SPG:	0.5738