



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

30-045-25354

Analysis No: DU150709
Cust No: 23000-22650

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: SLY SLAV #1; CSG
County/State: NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: CASING
Pressure: 200 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 11/03/2015
Sampled By:
Foreman/Engr.: JIMMY DAVIS

OIL CONS. DIV DIST. 3

NOV 19 2015

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.947	0.1050	0.00	0.0092
CO2	0.688	0.1180	0.00	0.0105
Methane	78.510	13.3540	792.95	0.4349
Ethane	10.472	2.8100	185.32	0.1087
Propane	6.103	1.6870	153.56	0.0929
Iso-Butane	0.633	0.2080	20.58	0.0127
N-Butane	1.645	0.5200	53.66	0.0330
I-Pentane	0.355	0.1300	14.20	0.0088
N-Pentane	0.339	0.1230	13.59	0.0084
Hexane Plus	0.308	0.1380	16.23	0.0102
Total	100.000	19.1930	1250.11	0.7293

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1257.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1235.6
REAL SPECIFIC GRAVITY: 0.7317

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

DRY BTU @ 14.650: 1250.7
DRY BTU @ 14.696: 1254.6
DRY BTU @ 14.730: 1257.5
DRY BTU @ 15.025: 1282.7

CYLINDER #: 6022
CYLINDER PRESSURE: 42 PSIG
DATE RUN: 11/11/15 8:33 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: SLY SLAV #1; CSG
Str. No.:
Mtr. No.:

CASING

11/12/2015
23000-22650

Smpl Date: 11/03/2015
Test Date: 11/11/2015
Run No: DU150709

Nitrogen: 0.947
CO2: 0.688
Methane: 78.510
Ethane: 10.472
Propane: 6.103
I-Butane: 0.633
N-Butane: 1.645
I-Pentane: 0.355
N-Pentane: 0.339
Hexane+: 0.308

BTU: 1257.5
GPM: 19.1930
SPG: 0.7317



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

Analysis No: DU150699
Cust No: 23000-22600

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: SLY SLAV #1; BHD
County/State:
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 6 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 10/29/2015
Sampled By:
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	13.765	1.5170	0.00	0.1331
CO2	0.089	0.0150	0.00	0.0014
Methane	84.657	14.3740	855.03	0.4689
Ethane	1.007	0.2700	17.82	0.0105
Propane	0.235	0.0650	5.91	0.0036
Iso-Butane	0.075	0.0250	2.44	0.0015
N-Butane	0.012	0.0040	0.39	0.0002
I-Pentane	0.006	0.0020	0.24	0.0001
N-Pentane	0.002	0.0010	0.08	0.0000
Hexane Plus	0.152	0.0680	8.01	0.0050
Total	100.000	16.3410	889.93	0.6244

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0018
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 893.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 878.1
REAL SPECIFIC GRAVITY: 0.6253

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

DRY BTU @ 14.650: 888.7
DRY BTU @ 14.696: 891.5
DRY BTU @ 14.730: 893.6
DRY BTU @ 15.025: 911.5

CYLINDER #: 4173
CYLINDER PRESSURE: PSIG
DATE RUN: 11/5/15 8:04 AM
ANALYSIS RUN BY: JENNIFER DEAN



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: SLY SLAV #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
DAKOTA

11/10/2015
23000-22600

Smpl Date: 10/29/2015
Test Date: 11/05/2015
Run No: DU150699

Nitrogen: 13.765
CO2: 0.089
Methane: 84.657
Ethane: 1.007
Propane: 0.235
I-Butane: 0.075
N-Butane: 0.012
I-Pentane: 0.006
N-Pentane: 0.002
Hexane+: 0.152

BTU: 893.6
GPM: 16.3410
SPG: 0.6253