



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. CP110761
CUST. NO. 18300 - 21725

WELL/LEASE INFORMATION

API # 30-045-34861

CUSTOMER NAME CONOCO PHILLIPS COMPANY
WELL NAME HOWELL M #1B
COUNTY/ STATE
LOCATION
FIELD
FORMATION
CUST.STN.NO. A722170SM

SOURCE BH VALVE
PRESSURE 155 PSI G
SAMPLE TEMP N/A DEG.F
WELL FLOWING Y
DATE SAMPLED 08/11/2011
SAMPLED BY DANNY TRUJILLO
FOREMAN/ENGR. CHRIS PIERSON

REMARKS

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.314	0.0350	0.00	0.0030
CO2	0.003	0.0010	0.00	0.0000
METHANE	91.885	15.6140	928.04	0.5090
ETHANE	4.136	1.1090	73.19	0.0429
PROPANE	2.071	0.5720	52.11	0.0315
I-BUTANE	0.451	0.1480	14.67	0.0091
N-BUTANE	0.508	0.1610	16.57	0.0102
I-PENTANE	0.209	0.0770	8.36	0.0052
N-PENTANE	0.128	0.0470	5.13	0.0032
HEXANE PLUS	0.295	0.1320	15.55	0.0098
TOTAL	100.000	17.8960	1,113.62	0.6239

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0026	GPM, BTU, and SPG calculations as shown
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,119.1	above are based on current GPA factors
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,099.6	
REAL SPECIFIC GRAVITY	0.6253	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,113.0
DRY BTU @ 14.696 1,116.5
DRY BTU @ 14.730 1,119.1
DRY BTU @ 15.025 1,141.5

CYLINDER # 4051
CYLINDER PRESSURE 144 PSIG
DATE RUN 08/15/2011
ANALYSIS RUN BY DAWN BLASSINGAME

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

LEASE : HOWELL M #1B
STN.NO. : A722170SM
MTR.NO. :

BH VALVE

8/17/2011
18300 - 21725

SMPL DATE	08/11/2011
TEST DATE	08/15/2011
RUN NR.	CP110761
NITROGEN	0.314
CO2	0.003
METHANE	91.885
ETHANE	4.136
PROPANE	2.071
I-BUTANE	0.451
N-BUTANE	0.508
I-PENTANE	0.209
N-PENTANE	0.128
HEXANE +	0.295
BTU	1,119.1
GPM	17.8960
SP.GRAV	0.6253



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. CP110760
CUST. NO. 18300 - 21720

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	INT VALVE
WELL NAME	HOWELL M #1B	PRESSURE	6.5 PSI G
COUNTY/ STATE		SAMPLE TEMP	N/A DEG.F
LOCATION		WELL FLOWING	Y
FIELD		DATE SAMPLED	08/11/2011
FORMATION		SAMPLED BY	DANNY TRUJILLO
CUST.STN.NO.	A722170SM	FOREMAN/ENGR.	CHRIS PIERSON

REMARKS PRESSURED WITH HELIUM TO 30#

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U *	SP.GR *
NITROGEN	4.211	0.4640	0.00	0.0407
CO2	0.037	0.0060	0.00	0.0006
METHANE	89.524	15.2080	904.19	0.4959
ETHANE	3.910	1.0480	69.20	0.0406
PROPANE	1.534	0.4230	38.60	0.0234
I-BUTANE	0.291	0.0950	9.46	0.0058
N-BUTANE	0.254	0.0800	8.29	0.0051
I-PENTANE	0.074	0.0270	2.96	0.0018
N-PENTANE	0.025	0.0090	1.00	0.0006
HEXANE PLUS	0.140	0.0630	7.38	0.0046
TOTAL	100.000	17.4230	1,041.08	0.6191

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0023	GPM, BTU, and SPG calculations as shown
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,045.9	above are based on current GPA factors
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,027.7	
REAL SPECIFIC GRAVITY	0.6203	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,040.2	CYLINDER #	6022
DRY BTU @ 14.696	1,043.5	CYLINDER PRESSURE	PSIG
DRY BTU @ 14.730	1,045.9	DATE RUN	08/15/2011
DRY BTU @ 15.025	1,066.8	ANALYSIS RUN BY	LOGAN RICHTER

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

LEASE : HOWELL M #1B

INT VALVE

8/17/2011

STN.NO. : A722170SM

18300 - 21720

MTR.NO. :

SMPL DATE 08/11/2011
TEST DATE 08/15/2011
RUN NR. CP110760

NITROGEN 4.211
CO2 0.037
METHANE 89.524
ETHANE 3.910
PROPANE 1.534
I-BUTANE 0.291
N-BUTANE 0.254
I-PENTANE 0.074
N-PENTANE 0.025
HEXANE + 0.140

BTU 1,045.9
GPM 17.4230
SP GRAV 0.6203