



7/26/2007

CONOCO PHILLIPS
WELL ANALYSIS COMPARISON

WELL NAME: HUGHES #9
STATION NO.:

	BRADENHEAD	CASING	MTR/TBG	TUBING
ANALYSIS NO.:	BU270447	BU270448	BU270449	270450
DATE:	7/24/2007	7/24/2007	7/24/2007	7/24/2007
COMPONENT	<u>MOLE %</u>	<u>MOLE %</u>	<u>MOLE %</u>	<u>MOLE %</u>
NITROGEN	96.518	0.337	0.298	0.424
CO2	0.148	0.246	0.212	0.234
METHANE	1.985	90.619	90.990	91.765
ETHANE	0.091	5.706	5.748	4.986
PROPANE	1.157	2.034	1.747	1.430
I-BUTANE	0.016	0.422	0.415	0.400
N-BUTANE	0.015	0.284	0.274	0.269
I-PENTANE	0.018	0.122	0.111	0.220
N-PENTANE	0.007	0.065	0.061	0.064
HEXANE +	0.045	0.165	0.144	0.208
	<u>100.000</u>	<u>100.000</u>	<u>100.000</u>	<u>100.000</u>
BTU'S	<u>55.3</u>	<u>1112.0</u>	<u>1106.9</u>	<u>1100.4</u>
GPM	<u>0.3821</u>	<u>2.4546</u>	<u>2.3665</u>	<u>2.1386</u>
SPEC. GRAV.	<u>0.9682</u>	<u>0.6235</u>	<u>0.6193</u>	<u>0.6169</u>



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

ANALYSIS NO. BU270447
CUST. NO. 52100 - 20355

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	BRADENHEAD
WELL NAME	HUGHES #9	PRESSURE	5 PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	N/A DEG.F
LOCATION	30-26N-07W	WELL FLOWING	Y
FIELD		DATE SAMPLED	07/24/2007
FORMATION		SAMPLED BY	DERECK RHODEN
CUST.STN.NO.	078048	FOREMAN/ENGR.	

REMARKS PRESSURED WITH HELIUM TO 30#.

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	96.518	0.0000	0.00	0.9336
CO2	0.148	0.0000	0.00	0.0022
METHANE	1.985	0.0000	20.09	0.0110
ETHANE	0.091	0.0243	1.61	0.0009
PROPANE	1.157	0.3186	29.18	0.0176
I-BUTANE	0.016	0.0052	0.52	0.0003
N-BUTANE	0.015	0.0047	0.49	0.0003
I-PENTANE	0.018	0.0066	0.72	0.0004
N-PENTANE	0.007	0.0025	0.28	0.0002
HEXANE PLUS	0.045	0.0201	2.38	0.0015
TOTAL	100.000	0.3821	55.27	0.9682

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0000
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	55.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	55.2
REAL SPECIFIC GRAVITY	0.9680

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	55.0
DRY BTU @ 14.696	55.2
DRY BTU @ 14.730	55.3
DRY BTU @ 15.025	56.4

CYLINDER #	62090000
CYLINDER PRESSURE	PSIG
DATE RUN	07/25/2007
ANALYSIS RUN BY	ROSEANN MUNIZ



2030 AFTON PLACE
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ANALYSIS NO. BU270448
CUST. NO. 52100 - 20360

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	CASING
WELL NAME	HUGHES #9	PRESSURE	5 PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	N/A DEG.F
LOCATION	30-26N-07W	WELL FLOWING	Y
FIELD		DATE SAMPLED	07/24/2007
FORMATION		SAMPLED BY	DERECK RHODEN
CUST.STN.NO.	078048	FOREMAN/ENGR.	

REMARKS

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.337	0.0000	0.00	0.0033
CO2	0.246	0.0000	0.00	0.0037
METHANE	90.619	0.0000	917.34	0.5020
ETHANE	5.706	1.5252	101.21	0.0592
PROPANE	2.034	0.5600	51.30	0.0310
I-BUTANE	0.422	0.1380	13.76	0.0085
N-BUTANE	0.284	0.0895	9.29	0.0057
I-PENTANE	0.122	0.0446	4.89	0.0030
N-PENTANE	0.065	0.0235	2.61	0.0016
HEXANE PLUS	0.165	0.0736	8.73	0.0055
TOTAL	100.000	2.4546	1,109.13	0.6235

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0030	GPM, BTU, and SPG calculations as shown above are based on current GPA factors.
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,112.0	
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,093.5	
REAL SPECIFIC GRAVITY	0.6249	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,106.0	CYLINDER #	50280000
DRY BTU @ 14.696	1,109.4	CYLINDER PRESSURE	15 PSIG
DRY BTU @ 14.730	1,112.0	DATE RUN	07/25/2007
DRY BTU @ 15.025	1,134.3	ANALYSIS RUN BY	ROSEANN MUNIZ



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

ANALYSIS NO. BU270449
CUST. NO. 52100 - 20365

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	MTR RUN/TBG
WELL NAME	HUGHES #9	PRESSURE	145 PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	N/A DEG.F
LOCATION	30-26N-07W	WELL FLOWING	Y
FIELD		DATE SAMPLED	07/24/2007
FORMATION		SAMPLED BY	DERECK RHODEN
CUST.STN.NO.	078048	FOREMAN/ENGR.	

REMARKS

COMPONENT	MOLE %	ANALYSIS		
		GPM**	B.T.U.*	SP.GR *
NITROGEN	0.298	0.0000	0.00	0.0029
CO2	0.212	0.0000	0.00	0.0032
METHANE	90.990	0.0000	921.09	0.5041
ETHANE	5.748	1.5364	101.96	0.0597
PROPANE	1.747	0.4810	44.06	0.0266
I-BUTANE	0.415	0.1357	13.53	0.0083
N-BUTANE	0.274	0.0864	8.96	0.0055
I-PENTANE	0.111	0.0406	4.45	0.0028
N-PENTANE	0.061	0.0221	2.45	0.0015
HEXANE PLUS	0.144	0.0642	7.62	0.0048
TOTAL	100.000	2.3665	1,104.12	0.6193

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,106.9
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,088.5
REAL SPECIFIC GRAVITY		0.6207

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,100.9
DRY BTU @ 14.696	1,104.3
DRY BTU @ 14.730	1,106.9
DRY BTU @ 15.025	1,129.0

CYLINDER #	61590000
CYLINDER PRESSURE	125 PSIG
DATE RUN	07/25/2007
ANALYSIS RUN BY	ROSEANN MUNIZ



2030 AFTON PLACE
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ANALYSIS NO. BU270450
CUST. NO. 52100 - 20370

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	TUBING
WELL NAME	HUGHES #9	PRESSURE	5 PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	N/A DEG.F
LOCATION	30-26N-07W	WELL FLOWING	Y
FIELD		DATE SAMPLED	07/24/2007
FORMATION		SAMPLED BY	DERECK RHODEN
CUST.STN.NO.	078048	FOREMAN/ENGR.	

REMARKS PRESSURED WITH HELIUM TO 30#.

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.424	0.0000	0.00	0.0041
CO2	0.234	0.0000	0.00	0.0036
METHANE	91.765	0.0000	928.94	0.5084
ETHANE	4.986	1.3327	88.44	0.0518
PROPANE	1.430	0.3937	36.06	0.0218
I-BUTANE	0.400	0.1308	13.04	0.0080
N-BUTANE	0.269	0.0848	8.80	0.0054
I-PENTANE	0.220	0.0805	8.82	0.0055
N-PENTANE	0.064	0.0232	2.57	0.0016
HEXANE PLUS	0.208	0.0928	11.00	0.0069
TOTAL	100.000	2.1386	1,097.67	0.6169

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,100.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,082.1
REAL SPECIFIC GRAVITY		0.6184

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,094.4
DRY BTU @ 14.696	1,097.9
DRY BTU @ 14.730	1,100.4
DRY BTU @ 15.025	1,122.5

CYLINDER #	42320000
CYLINDER PRESSURE	PSIG
DATE RUN	07/25/2007
ANALYSIS RUN BY	ROSEANN MUNIZ