



Mr. Brandon Powell
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, NM 87410

Accept for record BP

RE: Murphy D 100S
API# 3004534856
Sec. 27, T30N, R11W
Lease: NM-02758



September 1, 2011

Dear Mr. Powell:

On July 6, 2011 ConocoPhillips Company was drilling a new Cathodic ground bed on the Murphy D 100S (API# 3004534856), a depth of 240' was reached when H₂S gas was encountered. The amount of H₂S gas located in the breathing zone and on the rig was 0ppm. COPC contacted you on July 6, 2011 to report the incident. The Cathodic hole for the Murphy D 100S was plugged with Portland cement due to the H₂S gas. A nearby existing cathodic ground bed was located on the Murphy D #4A.

NMOCD requested the following information:

- Water sample from Murphy D 100S ground bed – Unable to obtain due to no water being produced
- Water sample from Murphy D 4A ground bed – Unable to obtain due to ground bed being plugged
(Attached Picture)
- Bradenhead tests from Murphy D 100S and Murphy D 4A – Attached
- Gas sample from Murphy D 100S – Unable to obtain because of no pressure on Bradenhead
- Gas sample from Murphy D 4A – Attached

ConocoPhillips has a proud history of operating our New Mexico oil and gas properties in compliance with applicable OCD and BLM rules and regulations. ConocoPhillips is committed to operating with the highest regard for compliance as well as protecting public health, safety and the environment.

If further details or information is needed regarding the above mentioned well please contact me at (505) 326-9837.

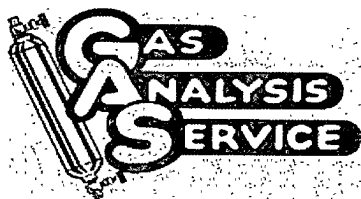
Sincerely,

A handwritten signature in cursive script that reads 'Crystal Tafoya'.

Crystal Tafoya
Staff Regulatory Technician



JUL 7 2011



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

ANALYSIS NO. CP110800
CUST. NO. 18300 - 21880

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	BRADENHEAD
WELL NAME	MURPHY D #4 A BHD	PRESSURE	18 PSI A
COUNTY/ STATE	SAN JUAN NM	SAMPLE TEMP	N/A DEG.F
LOCATION		WELL FLOWING	Y
FIELD		DATE SAMPLED	08/22/2011
FORMATION	BLANCO MV	SAMPLED BY	GERALD GONZALES
CUST.STN.NO.		FOREMAN/ENGR.	KODY MARTIN

REMARKS API #30-045-29450, TIME 1:40PM

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.313	0.1450	0.00	0.0127
CO2	0.015	0.0030	0.00	0.0002
METHANE	83.914	14.2680	847.53	0.4648
ETHANE	8.581	2.3020	151.86	0.0891
PROPANE	3.337	0.9220	83.96	0.0508
I-BUTANE	0.600	0.1970	19.51	0.0120
N-BUTANE	0.919	0.2910	29.98	0.0184
I-PENTANE	0.369	0.1350	14.76	0.0092
N-PENTANE	0.283	0.1030	11.34	0.0070
HEXANE PLUS	0.669	0.2990	35.26	0.0221
TOTAL	100.000	18.6650	1,194.20	0.6865

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG F.

COMPRESSIBILITY FACTOR (1/Z)	1.0032
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,200.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,179.9
REAL SPECIFIC GRAVITY	0.6884

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	1,194.3
DRY BTU @ 14.696	1,198.0
DRY BTU @ 14.730	1,200.8
DRY BTU @ 15.025	1,224.8

CYLINDER #	6081
CYLINDER PRESSURE	16 PSIG
DATE RUN	08/23/2011
ANALYSIS RUN BY	LOGAN RICHTER

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

LEASE : MURPHY D #4 A BHD

BRADENHEAD

8/23/2011

STN.NO. :

BLANCO MV

18300 - 21880

MTR.NO. :

SMPL DATE 08/22/2011
TEST DATE 08/23/2011
RUN NR CP110800

NITROGEN 1.313
CO2 0.015
METHANE 83.914
ETHANE 8.581
PROPANE 3.337
I-BUTANE 0.600
N-BUTANE 0.919
I-PENTANE 0.369
N-PENTANE 0.283
HEXANE + 0.669

BTU 1,200.8
GPM 18.6650
SP GRAV 0.6884



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

ANALYSIS NO. CP110801
CUST. NO. 18300 - 21885

WELL/LEASE INFORMATION

CUSTOMER NAME	CONOCO PHILLIPS COMPANY	SOURCE	CASING
WELL NAME	MURPHY D #4A	PRESSURE	237 PSI A
COUNTY/ STATE	SAN JUAN NM	SAMPLE TEMP	N/A DEG F
LOCATION		WELL FLOWING	Y
FIELD		DATE SAMPLED	08/22/2011
FORMATION	BLANCO MV	SAMPLED BY	GERALD GONZALES
CUST.STN.NO.		FOREMAN/ENGR.	KODY MARTIN

REMARKS API #30-045-29450, TIME 2 15PM

ANALYSIS				
COMPONENT	MOLE %	GPM**	B T U.*	SP GR *
NITROGEN	0.238	0.0260	0.00	0.0023
CO2	0.487	0.0830	0.00	0.0074
METHANE	81.989	13.9430	828.09	0.4541
ETHANE	9.591	2.5730	169.73	0.0996
PROPANE	4.546	1.2560	114.38	0.0692
I-BUTANE	0.974	0.3200	31.67	0.0195
N-BUTANE	1.042	0.3300	33.99	0.0209
I-PENTANE	0.392	0.1440	15.68	0.0098
N-PENTANE	0.273	0.0990	10.94	0.0068
HEXANE PLUS	0.468	0.2090	24.67	0.0155
TOTAL	100.000	18.9830	1,229.15	0.7051

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG F.

COMPRESSIBILITY FACTOR (1/Z)	1.0034	GPM, BTU, and SPG calculations as shown above are based on current GPA factors.
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,236.2	
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,214.7	
REAL SPECIFIC GRAVITY	0.7073	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,229.5	CYLINDER #	6067
DRY BTU @ 14.696	1,233.3	CYLINDER PRESSURE	228 PSIG
DRY BTU @ 14.730	1,236.2	DATE RUN	08/23/2011
DRY BTU @ 15.025	1,261.0	ANALYSIS RUN BY	AMANDA FLOREZ

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

LEASE :	MURPHY D #4A	CASING	8/23/2011	
STN.NO. :		BLANCO MV	18300	21885
MTR.NO. :				

SMPL DATE	08/22/2011
TEST DATE	08/23/2011
RUN NR.	CP110801

NITROGEN	0.238
CO2	0.487
METHANE	81.989
ETHANE	9.591
PROPANE	4.546
I-BUTANE	0.974
N-BUTANE	1.042
I-PENTANE	0.392
N-PENTANE	0.273
HEXANE +	0.468

BTU	1,236.2
GPM	18.9830
SP GRAV	0.7073



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emnrd.state.nm.us/ocd/District III/3district.htm](http://emnrd.state.nm.us/ocd/District%20III/3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8/14/11 Operator Conoco Phillips API #30-0 45-34856
Property Name Murphy D Well No. 100 S Location: Unit L Section 27 Township 30N Range 11W
Well Status(Shut-In or Producing) Initial PSI: Tubing 29 Intermediate N/A Casing 50 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0		50		
10 min	0		52		
15 min	0		55		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	
Nothing	✓
Gas	
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE _____

REMARKS: BH had 0 Pressure.

By Gerald Gonzalez
Area #3 M50
(Position)

Witness _____

E-mail address _____