



NEW MEXICO ENERGY, MINERALS
and
NATURAL RESOURCES
DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178
FAX: (505) 334-6170
www.emnrd.state.nm.us/ocd/District 3/3distric.htm

BRADENHEAD TEST REPORT
(Submit 2 copies to above address)

Date of Test 8-21-05 Operator Little Oil and Gas, Inc. API #30-0 45-25424

Property Name Kelly Federal Well No. #1 Location : Unit M Section 8 Township 30 Range 10

Well Status (Shut-In or Producing) Tubing 91 Intermediate 929 Casing 525 Bradenhead 42

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

PRESSURES:

TIME	BRADENHEAD	INTERMEDIATE	CASING
5 minutes	0	929	525
10 minutes	0	929	525
15 minutes	0	929	525
20 minutes			
25 minutes			
30 minutes			

BRADENHEAD FLOWED	INTERMEDIATE FLOWED
Steady Flow <u>XX</u>	<u>XX</u>
Surges	
Down to Nothing <u>a very lt. blow</u>	<u>a lt. blow.</u>
Nothing	
Gas <u>for 4 minutes</u>	<u>for 40 minutes</u>
Gas & Water	
Water	

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

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN BRADENHEAD tstn INTERMEDIATE 5

REMARKS:

Bradenhead flowed through 1/2" opening. Intermediate flowed through 1" opening.

By Joe Elledge

Witness

Production Foreman
(Position)

E-mail Address





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

ANALYSIS NO. LI250001
CUST. NO. 46500 - 10000

WELL/LEASE INFORMATION

CUSTOMER NAME LITTLE OIL & GAS
WELL NAME KELLY FEDERAL #1
COUNTY/ STATE
LOCATION
FIELD
FORMATION BASIN DAKOTA
CUST.STN.NO.

SOURCE N/A CASING
PRESSURE 535 PSIG
SAMPLE TEMP N/A DEG.F
WELL FLOWING Y
DATE SAMPLED 8/23/2005
SAMPLED BY JOE ELLEDGE
FOREMAN/ENGR.

REMARKS API #30-045-25424

COPY

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.233	0.0000	0.00	0.0023
CO2	0.329	0.0000	0.00	0.0050
METHANE	92.886	0.0000	940.28	0.5146
ETHANE	4.430	1.1841	78.58	0.0460
PROPANE	1.246	0.3431	31.42	0.0190
I-BUTANE	0.206	0.0674	6.71	0.0041
N-BUTANE	0.265	0.0835	8.67	0.0053
I-PENTANE	0.107	0.0392	4.29	0.0027
N-PENTANE	0.067	0.0243	2.69	0.0017
HEXANE PLUS	0.231	0.1016	11.88	0.0074
TOTAL	100.000	1.8431	1,084.52	0.6080

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0024
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,087.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,069.2
REAL SPECIFIC GRAVITY 0.6096

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,081.3
DRY BTU @ 14.696 1,084.7
DRY BTU @ 14.730 1,087.3
DRY BTU @ 15.025 1,109.0

CYLINDER # 4048
CYLINDER PRESSURE 524 PSIG
DATE RUN 8/24/2005
ANALYSIS RUN BY AMANDA FLOREZ



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

ANALYSIS NO. LI250002
CUST. NO. 46500 - 10005

WELL/LEASE INFORMATION

CUSTOMER NAME LITTLE OIL & GAS
WELL NAME KELLY FEDERAL #1
COUNTY/ STATE
LOCATION
FIELD
FORMATION BASIN DAKOTA
CUST.STN.NO.

SOURCE BRADENHEAD
PRESSURE 10 PSIG
SAMPLE TEMP N/A DEG.F
WELL FLOWING Y
DATE SAMPLED 8/23/2005
SAMPLED BY JOE ELLEDGE
FOREMAN/ENGR.

COPY

REMARKS SAMPLE CHARGED WITH HELIUM TO 30#, UNNORMALIZED MOLE PERCENT = 14.839
API #30-045-25424

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	2.692	0.0000	0.00	0.0260
CO2	0.073	0.0000	0.00	0.0011
METHANE	85.357	0.0000	864.07	0.4729
ETHANE	5.292	1.4145	93.87	0.0549
PROPANE	2.649	0.7294	66.81	0.0403
I-BUTANE	0.384	0.1256	12.52	0.0077
N-BUTANE	0.767	0.2418	25.08	0.0154
I-PENTANE	0.304	0.1112	12.19	0.0076
N-PENTANE	0.278	0.1007	11.17	0.0069
HEXANE PLUS	2.204	0.9695	113.31	0.0709
TOTAL	100.000	3.6927	1,199.02	0.7038

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,204.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,184.1
REAL SPECIFIC GRAVITY 0.7067

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,197.6
DRY BTU @ 14.696 1,201.4
DRY BTU @ 14.730 1,204.2
DRY BTU @ 15.025 1,228.3

CYLINDER # 4142
CYLINDER PRESSURE PSIG
DATE RUN 8/24/2005
ANALYSIS RUN BY AMANDA FLOREZ



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

ANALYSIS NO. LI250003
CUST. NO. 46500 - 10010

WELL/LEASE INFORMATION

CUSTOMER NAME LITTLE OIL & GAS
WELL NAME KELLY FEDERAL #1
COUNTY/ STATE
LOCATION
FIELD
FORMATION BASIN DAKOTA
CUST.STN.NO.

SOURCE
PRESSURE 120 PSIG
SAMPLE TEMP N/A DEG.F
WELL FLOWING Y
DATE SAMPLED 8/23/2005
SAMPLED BY JOE ELLEDGE
FOREMAN/ENGR.

REMARKS API #30-045-25424

COPY

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.252	0.0000	0.00	0.0024
CO2	0.382	0.0000	0.00	0.0058
METHANE	78.379	0.0000	793.43	0.4342
ETHANE	9.449	2.5256	167.61	0.0981
PROPANE	6.963	1.9172	175.61	0.1060
I-BUTANE	1.063	0.3477	34.65	0.0213
N-BUTANE	2.100	0.6620	68.67	0.0421
I-PENTANE	0.574	0.2100	23.02	0.0143
N-PENTANE	0.423	0.1532	17.00	0.0105
HEXANE PLUS	0.415	0.1825	21.34	0.0134
TOTAL	100.000	5.9983	1,301.33	0.7483

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

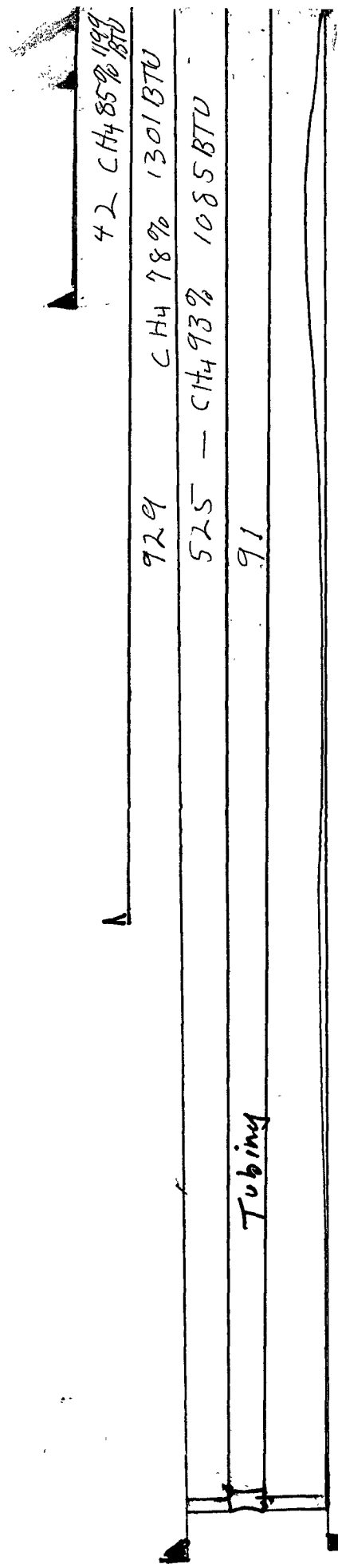
** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0039
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,306.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,284.7
REAL SPECIFIC GRAVITY 0.7511

ANALYSIS RUN AT 14 730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,299.5
DRY BTU @ 14.696 1,303.6
DRY BTU @ 14.730 1,306.6
DRY BTU @ 15.025 1,332.8

CYLINDER # 4145
CYLINDER PRESSURE 112 PSIG
DATE RUN 8/24/2005
ANALYSIS RUN BY AMANDA FLOREZ



9 5/8"

213 KB

7"

Kelly Fed #1
Producing

3194

4 1/2

7497