



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

Analysis No: EN140147
Cust No: 73500-12990

Well/Lease Information

Customer Name: ENERGEN RESOURCES CORP.
Well Name: HOLLY FEDERAL #1
County/State: SAN JUAN NM
Location: NMNM13959
Field:
Formation:
Cust. Stn. No.: 29080
DP#3129080

Source: *Meter / Casing*
Pressure: 30 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 03/12/2014
Sampled By: EUGENE BURBANK
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.582	0.1750	0.00	0.0153
CO2	0.422	0.0720	0.00	0.0064
Methane	75.037	12.7740	757.88	0.4156
Ethane	9.537	2.5610	168.77	0.0990
Propane	7.341	2.0310	184.71	0.1118
Iso-Butane	0.783	0.2570	25.46	0.0157
N-Butane	2.546	0.8060	83.06	0.0511
I-Pentane	0.626	0.2300	25.05	0.0156
N-Pentane	0.674	0.2450	27.02	0.0168
Hexane Plus	1.452	0.6500	76.54	0.0481
Total	100.000	19.8010	1348.47	0.7954

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1357.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1334.0
REAL SPECIFIC GRAVITY: 0.7986

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

DRY BTU @ 14.650: 1350.2
DRY BTU @ 14.696: 1354.5
DRY BTU @ 14.730: 1357.6
DRY BTU @ 15.025: 1384.8

CYLINDER #: 4113
CYLINDER PRESSURE: 30 PSIG
DATE RUN: 3/13/14 8:44 AM
ANALYSIS RUN BY: LOGAN CHENEY



RUSH

30#

☐ Helium

☐ Hydrogen

☐ Oxygen

☐ C6+

☐ C9+

☐ BTEX

2030 Afton Place, Farmington, NM 87401 • 505/325-6622

Company Energen Res

Pressure(PSIG) 30

Well Name Holly Federal #1

Sample Temp (Deg. F) _____

Location/Source Meter

Well Flowing ☒ Yes ☐ No

Lease/County _____

Date Sampled 3-12-14

Formation _____

Sampled By Eugene Burbank

Meter No _____

Cylinder No. 4113

Contact _____

Remarks _____



2030 Afton Place
Farmington, NM 87401
(505) 325-5622

Analysis No: EN140146
Cust No: 73500-14395

Well/Lease Information

Customer Name: ENERGEN RESOURCES CORP.
Well Name: HOLLY FEDERAL #1 BHD
County/State:
Location:
Field:
Formation:
Cust. Str. No.:

Source: Bradenhead
Pressure: 40 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 03/12/2014
Sampled By: EUGENE BURBANK
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.732	0.1910	0.00	0.0168
CO2	0.364	0.0620	0.00	0.0055
Methane	78.261	13.3160	790.44	0.4335
Ethane	8.886	2.3850	157.25	0.0923
Propane	6.104	1.6880	153.58	0.0929
Iso-Butane	0.609	0.2000	19.80	0.0122
N-Butane	1.903	0.6020	62.08	0.0382
I-Pentane	0.442	0.1620	17.68	0.0110
N-Pentane	0.474	0.1720	19.00	0.0118
Hexane Plus	1.225	0.5480	64.57	0.0405
Total	100.000	19.3260	1284.41	0.7547

* @ 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): 1292.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1269.9
REAL SPECIFIC GRAVITY: 0.7574

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

DRY BTU @ 14.650: 1285.4
DRY BTU @ 14.696: 1289.4
DRY BTU @ 14.730: 1292.4
DRY BTU @ 15.025: 1318.3

CYLINDER #: 6236
CYLINDER PRESSURE: 42 PSIG
DATE RUN: 3/13/14 8:43 AM
ANALYSIS RUN BY: LOGAN CHENEY



Rush

42#

☐ Helium

☐ Hydrogen

☐ Oxygen

☐ C6+

☐ C9+

☐ BTEX

2030 Afton Place, Farmington, NM 87401 • 505/325-6622

Company *Energen*

Pressure(PSIG) *40*

Well Name *Holly Federal #1*

Sample Temp (Deg. F) _____

Location/Source *Bradenhead*

Well Flowing ☒ Yes ☐ No

Lease/County _____

Date Sampled *3-12-14*

Formation _____

Sampled By *Eugene Burbank*

Meter No _____

Cylinder No. *6236*

Contact _____

Remarks _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

MAR 14 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an existing well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

505-325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

980' FSL, 700' FEL, Sec. 29, T30N, R15W, N.M.P.M.
(P) SE/SE

5. Lease Serial No.

NM13959

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Holly Federal #1

9. API Well No.

30-045-25002

10. Field and Pool, or Exploratory Area

Meadows Gallup

11. County or Parish, State

San Juan NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize☐ Deepen☐ Production (Start/Resume)☐ Water Shut-Off☐ Alter Casing☐ Fracture Treat☐ Reclamation☒ Well Integrity☒ Casing Repair☐ New Construction☐ Recomplete☐ Other☐ Change Plans☐ Plug and Abandon☐ Temporarily Abandon☐ Convert to Injection☐ Plug Back☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

On 3/12/14 it was reported that the Holly Federal #1 failed a bradenhead test. Energen Resources intends to identify the casing issue and make repairs as follows:

1. MIRU WSU.
2. TOOH w/ TBNG. TIH w/ CBP and set @ 4000'.
3. Isolate possible CSNG leak using 5 1/2" packer.
4. Squeeze CSNG leak. WOC.
5. Drill out CMNT and test CSNG to 600PSI for 30 mins.
6. Clean out to PBTD using air/mist.
7. TIH w/ production TBNG. RDMO WSU.

This will be a closed loop operation.

OIL CONS. DIV DIST. 3
APR 17 201414. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Collin Placke

Title District Engineer

Signature

Collin Placke

Date 3/12/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

PE

Date

MAR 17 2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

F-10

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 14 2014

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

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Farmington Field Office
Bureau of Land Management

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☒ Oil Well ☐ Gas Well ☐ Other

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Holly Federal #1

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7. TIH w/ production TBNG. RDMO WSU.

This will be a closed loop operation.

Notify NMOCD 24 hrs
prior to beginning
operations

RCVD MAR 18 '14
OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Collin Placke

Title District Engineer

Signature

Collin Placke

Date 3/12/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

MAR 17 2014

Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

VMOCD

ENERGEN 3000 Rnd 15
26-21 TUN-28002
00 APR 30 0415-28002

OIL CONS. DIV DIST. 3

APR 17 2014

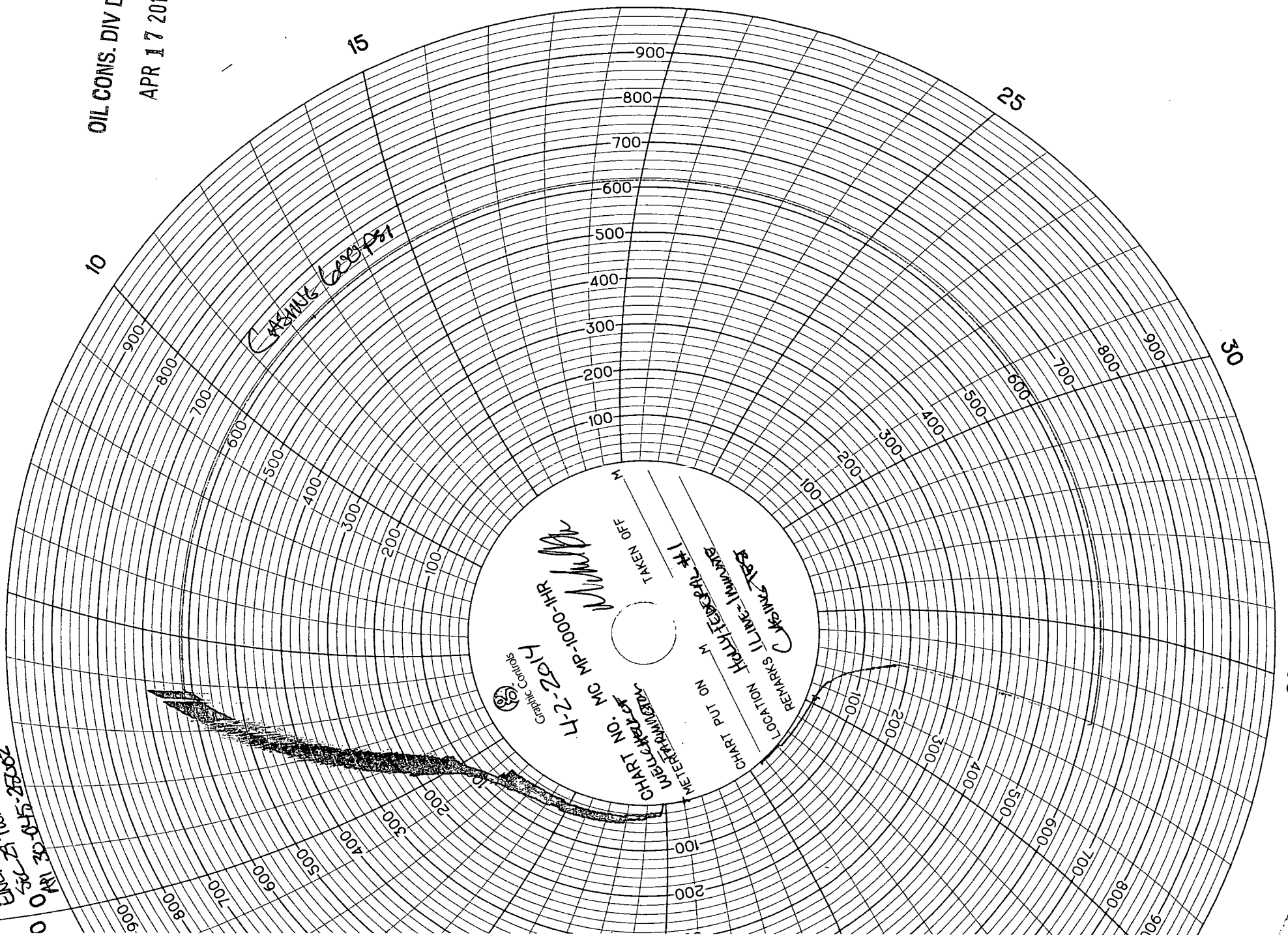


CHART NO. MC MP-1000-IHR
L-2-2214
Graphic Controls
METER NUMBER
LOCATION HALLTERRAL #1
REMARKS LINE-1000 PSI
TAKEN OFF
CHART PUT ON
DATE
BY