Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

CONFIDENTIAL
TIGHT HOLE

Form C-103
June 19, 2008

WELL API NO. 30-045-35242

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No. Fed NMSF077972

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Richardson Navajo 27 13 10

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number #4H

2. Name of Operator: Energen Resources Corporation

9. OGRID Number 162928

3. Address of Operator: 2010 Afton Place, Farmington, NM 87401

10. Pool name or Wildcat: Basin Mancos

4. Well Location

Unit Letter N : 1281 feet from the South line and 1385 feet from the West line

Section 11 Township 27N Range 13W NMPM County San Juan

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 5922' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
OTHER:	☐			OTHER: Inter-Well Communications			☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Energen Resources Corporation conducted stimulation on the Richardson Navajo 27 13 10 #4H
Start Date: 11/29/15
End Date: 12/02/15
Type: Nitrogen Foam
Pressure: 5924.9
Volume: 52,532,194 scf N2
Results of any investigation conducted: Gas Analysis
Attached: Spreadsheet listing affected wells due to stimulation activity

OIL CONS. DIV DIST. 3
JAN 15 2016

Spud Date: 10/14/15 Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Theresa McAndrews TITLE Production Supervisor DATE 1/15/16

Type or print name Theresa McAndrews E-mail address: tmcandre@energen.com PHONE 505.325.6800

For State Use Only

APPROVED BY ACCEPTED FOR RECORD TITLE DATE 2/12/16

Conditions of Approval (if any):

5

CONFIDENTIAL
TIGHT HOLE

Stimulated Wells: **Richardson Navajo 27-13 10 #4H**
API: 30-045-35242
Sec. 11, T27N-R13W (SE/SW)

Affected Wells

Well Name	API Number	Pool - Formation	Operator	Date Affected: On or about	Type Communication	Volume of Communication	Highest PSI Observed	Standard Operating PSI	Results of Communication	Results of any Investigation Conducted
Richardson Gas Com B #1E	30-045-25534	Basin Mancos	Energen Resources	*11/29/2015	N2	N2 @34%, Sample date 1/6/16	NA	NA	Increased N2 in the gas stream; Enterprise allowed gas to sales	N2 to Sales
Richardson #5	30-045-24998	Basin Mancos	Energen Resources	*11/29/2015	N2	N2 @48%, Sample date 1/4/16	NA	NA	Increased N2 in the gas stream; Enterprise allowed gas to sales	N2 to Sales

Note: Both of these wells were SI while stimulation operations were being conducted. After drilling out isolation plugs with air, Energen deferred submitting this report until we were reasonable sure that the N2 was a result of stimulation impacts and not from the air clean-out operations.

Follow-up gas sampling dated 1/12/2016 indicted N2 levels at 25.7% N2 for the Richardson GC B1E and 14.6% N2 for the Richardson #5 which indicated stimulation charged N2, based on the duration of the entrained N2.

* Commencement of stimulation operations

GAS ANALYSIS SERVICE

CONFIDENTIAL
TIGHT HOLE

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

Analysis No: EN160001
Cust No: 73500-14770

Well/Lease Information

Customer Name:	ENERGEN RESOURCES CORP.	Source:	METER
Well Name:	RICHARDSON #5	Pressure:	84 PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	01/04/2016
Formation:	MANCOS/DAKOTA	Sampled By:	EUGENE BURBANK
Cust. Stn. No.:	94295	Foreman/Engr.:	EUGENE BURBANK

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	47.976	5.2860	0.00	0.4640
CO2	0.538	0.0920	0.00	0.0082
Methane	40.778	6.9230	411.86	0.2259
Ethane	4.287	1.1480	75.87	0.0445
Propane	3.952	1.0900	99.44	0.0602
Iso-Butane	0.369	0.1210	12.00	0.0074
N-Butane	1.202	0.3790	39.21	0.0241
I-Pentane	0.236	0.0860	9.44	0.0059
N-Pentane	0.227	0.0820	9.10	0.0057
Hexane Plus	0.434	0.1940	22.88	0.0144
Total	100.000	15.4010	679.80	0.8602

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0017
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	682.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	670.6
REAL SPECIFIC GRAVITY:	0.8613

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

DRY BTU @ 14.650:	678.8	CYLINDER #:	055
DRY BTU @ 14.696:	680.9	CYLINDER PRESSURE:	93 PSIG
DRY BTU @ 14.730:	682.5	DATE RUN:	1/5/16 8:54 AM
DRY BTU @ 15.025:	696.2	ANALYSIS RUN BY:	Shyann Elledge

CONFIDENTIAL
TIGHT HOLE

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

Analysis No: EN160002
Cust No: 73500-14775

Well/Lease Information

Customer Name:	ENERGEN RESOURCES CORP.	Source:	METER
Well Name:	RICHARDSON GAS COM B 1E	Pressure:	94 PSIG
County/State:	SAN JUAN NM	Sample Temp:	32 DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	01/06/2016
Formation:	MANCOS/DAKOTA	Sampled By:	JMG
Cust. Stn. No.:	94817	Foreman/Engr.:	EUGENE BURBANK

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	34.214	3.7710	0.00	0.3309
CO2	0.547	0.0940	0.00	0.0083
Methane	53.519	9.0900	540.54	0.2964
Ethane	5.167	1.3840	91.44	0.0536
Propane	3.851	1.0630	96.90	0.0586
Iso-Butane	0.419	0.1370	13.63	0.0084
N-Butane	1.391	0.4390	45.38	0.0279
I-Pentane	0.324	0.1190	12.96	0.0081
N-Pentane	0.312	0.1130	12.51	0.0078
Hexane Plus	0.256	0.1140	13.49	0.0085
Total	100.000	16.3240	826.84	0.8086

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0021
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	830.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	816.0
REAL SPECIFIC GRAVITY:	0.81

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

DRY BTU @ 14.650:	826.0	CYLINDER #:	6056
DRY BTU @ 14.696:	828.6	CYLINDER PRESSURE:	87 PSIG
DRY BTU @ 14.730:	830.5	DATE RUN:	1/8/16 12:00 AM
DRY BTU @ 15.025:	847.1	ANALYSIS RUN BY:	

CONFIDENTIAL
TIGHT HOLE

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

Analysis No: EN160026
Cust No: 73500-14775

Well/Lease Information

Customer Name:	ENERGEN RESOURCES CORP.	Source:	METER
Well Name:	RICHARDSON GAS COM B 1E	Pressure:	93 PSIG
County/State:	SAN JUAN NM	Sample Temp:	28 DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	01/12/2016
Formation:	MANCOS/DAKOTA	Sampled By:	RICH F.
Cust. Stn. No.:	94817	Foreman/Engr.:	EUGENE BURBANK

Remarks: SAMPLE CONTAINED 1/4 CUP OF CONDENSATE

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	25.691	2.8370	0.00	0.2485
CO2	0.539	0.0920	0.00	0.0082
Methane	50.815	8.6470	513.24	0.2815
Ethane	6.641	1.7830	117.52	0.0689
Propane	6.898	1.9070	173.56	0.1050
Iso-Butane	1.137	0.3730	36.97	0.0228
N-Butane	3.880	1.2280	126.58	0.0779
I-Pentane	1.362	0.5000	54.49	0.0339
N-Pentane	1.615	0.5880	64.74	0.0402
Hexane Plus	1.422	0.6370	74.95	0.0471
Total	100.000	18.5920	1162.06	0.9340

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.004
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1169.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1149.1
REAL SPECIFIC GRAVITY:	0.9374

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

DRY BTU @ 14.650:	1163.0	CYLINDER #:	7047
DRY BTU @ 14.696:	1166.7	CYLINDER PRESSURE:	90 PSIG
DRY BTU @ 14.730:	1169.4	DATE RUN:	1/13/16 12:00 AM
DRY BTU @ 15.025:	1192.8	ANALYSIS RUN BY:	PATRICIA KING