

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

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.)		WELL API NO. 30-045-35503
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☐
2. Name of Operator ENDURING RESOURCES IV LLC		6. State Oil & Gas Lease No. NMNM18463
3. Address of Operator 332 CR 3100 AZTEC NM 87410		7. Lease Name or Unit Agreement Name CHACO 2308 14E
4. Well Location Unit Letter <u>E</u> : <u>1426'</u> feet from the <u>N</u> line and <u>304'</u> feet from the <u>W</u> line Section <u>14</u> Township <u>23N</u> Range <u>8W</u> NMPM County <u>SAN JUAN</u>		8. Well Number 151H
		9. OGRID Number 372286
		10. Pool name or Wildcat NAGEEZI GL
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6889'		

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐ INTER-WELL COMMUNICATION

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Logos Resources conducted stimulation activity on the following wells:

Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876).

Attached: spreadsheet with affected wells due to stimulation activity and gas sample.

Spud Date:

4/9/14

Rig Release Date:

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

SIGNATURE Lacey Granillo TITLE Permit Specialist DATE 8/30/18

Type or print name Lacey Granillo E-mail address: lgranillo@enduringresources.com PHONE: 505-636-9743

For State Use Only

APPROVED BY: Accepted for Record TITLE _____ DATE _____

Conditions of Approval (if any):

NMOC

AUG 31 2018

DISTRICT III

Diablo Analytical BTU Report

GPA 2145-03 Analysis

Sample Information

Sample Information	
Sample Name	Chaco 151
Station Number	
Taken By	Alpine Analysis LLC
Operator	Travis Tapp
Method Name	StandardNatGas.met
Injection Date	2018-08-07 14:47:28
Report Date	2018-08-07 14:51:44
EZReporter Configuration File	default Standard Sample.cfgx
Source Data File	2018-08-07 14-47-16 (GMT -06-00)Chaco 151.dat
EZReporter Data File	Chaco 151-20180807-145144.ezrx
Data Source	Agilent EZChrom Connector

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.322	5881660.0	8.47499	0.0	0.08197	0.936
Methane	0.328	30785237.0	64.42539	652.2	0.35685	10.963
Carbon Dioxide	0.379	297255.0	0.43293	0.0	0.00658	0.074
Ethane	0.416	8209269.0	11.33861	201.1	0.11772	3.044
Hydrogen Sulfide	0.601	0.0	0.00000	0.0	0.00000	0.000
Propane	0.527	18542048.0	9.38783	236.8	0.14293	2.596
i-Butane	0.578	2521148.0	1.09624	35.7	0.02200	0.360
n-Butane	0.609	6814169.0	2.90464	95.0	0.05829	0.919
i-Pentane	0.715	1631512.0	0.62528	25.1	0.01558	0.230
n-Pentane	0.758	1652118.0	0.60852	24.5	0.01516	0.221
Hexanes Plus	0.000	2334872.0	0.70557	0.0	0.00000	0.000
Water	0.000	0.0	0.00000	0.0	0.00000	0.000
Total:			100.00000	1270.3	0.81707	19.343

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	97.26850	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Water Mole%	-	1.74067
Gross Heating Value (BTU / Ideal cu.ft.)	1270.3	1248.2
Gross Heating Value (BTU / Real cu.ft.)	1275.4	1253.7
Relative Density (G), Real	0.8200	0.8169
Compressibility (Z) Factor	0.9960	0.9956
Total GPM	19.343	19.114

AFFECTED WELL NAME	API	OPERATOR	STIMULATED WELL	AFFECTED DATE	TYPE OF COMMUNICATION	COMMUNICATION VOLUME	HIGHEST PRESSURE OBSERVED	STANDARD OPERATING PRESSURE	RESULTS OF COMMUNICATION	RESULTS OF INVESTIGATION CONDUCTED
WARNER CALDWELL 3B	30-045-35506	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/13/18		N/A	N/A	N/A	SHUT IN	NO GAS SAMPLE SHUT IT
W LYBROOK UNIT 744H	30-045-35730	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/11/18	Increased N2 and water	39.24	568	112	AUTHORIZED TO FLARE	GAS ANALYSIS
LOGOS 6	30-045-35422	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/13/18		N/A	N/A	N/A	SHUT IN	NO GAS SAMPLE SHUT IT
W LYBROOK UNIT 745H	30-045-35750	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/23/18		N/A	N/A	N/A	SHUT IN	NO GAS SAMPLE SHUT IT
CHACO 2308 16I #147H	30-045-35439	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/18/18	Increased N2 and water	62.86%	510	86	AUTHORIZED TO FLARE	No net gas flared, all buy back
CHACO 2308 16I #148H	30-045-35500	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/18/18	Increased N2 and water	44.12%	321	66	AUTHORIZED TO FLARE	GAS ANALYSIS
CHACO 2308 14E #151H	30-045-35503	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/11/18	Increased N2 and water	8.47%	284	81	AUTHORIZED TO FLARE	GAS ANALYSIS
CHACO 2308 14E #152H	30-045-35504	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/11/18	Increased N2 and water	8.27%	1446	83	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 702H	30-045-35726	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876)	7/11/18	Increased N2 and water	37.04%	569	116	AUTHORIZED TO FLARE	GAS ANALYSIS

W LYBROOK UNIT 703H	30-045-35727	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/17/18	Increased N2 and water	17.89%	517	113	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 704H	30-045-35728	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/16/18	Increased N2 and water	19.24%	524	137	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 711H	30-045-35809	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/16/18	Increased N2 and water	12.80%	571	127	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 713H	30-045-35808	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/12/18	Increased N2 and water	18.96%	555	100	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 701H	30-045-35725	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/12/18	Increased N2 and water	39.03%	588	149	AUTHORIZED TO FLARE	GAS ANALYSIS
W LYBROOK UNIT 743H	30-045-35729	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/12/18	Increased N2 and water	20.77%	596	237	AUTHORIZED TO FLARE	GAS ANALYSIS
CHACO 2308 09A #146H	30-045-35498	ENDURING	Heros 2308 09L Com 2H (30-045-35687), 3H (30-045-35848), 4H (30-045-35847), 5H (30-045-35877) & Athena 2308 14L #3H (30-045-35876	7/11/18	Increased N2 and water	32.15%	298	120	AUTHORIZED TO FLARE	GAS ANALYSIS