

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. 30-045-35498
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 09A
4. Well Location Unit Letter <u>A</u> : <u>932'</u> feet from the <u>N</u> line and <u>204'</u> feet from the <u>E</u> line Section <u>9</u> Township <u>23N</u> Range <u>8W</u> NMPM County <u>SAN JUAN</u>		8. Well Number 146H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6883'		9. OGRID Number 372286
		10. Pool name or Wildcat NAGEEZI GL

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: 1/13/14

Rig Release Date:

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

SIGNATURE Racey 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):

NMOCD

AUG 31 2018

DISTRICT III

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Diablo Analytical BTU Report

GPA 2145-03 Analysis

Sample Information

Sample Information	
Sample Name	Chaco 146
Station Number	
Taken By	Alpine Analysis LLC
Operator	Travis Tapp
Method Name	StandardNatGas.met
Injection Date	2018-08-13 15:03:18
Report Date	2018-08-13 15:07:33
EZReporter Configuration File	default Standard Sample.cfgx
Source Data File	2018-08-13 15-03-06 (GMT -06-00)Chaco 146-Rep2.dat
EZReporter Data File	Chaco 146-20180813-150733.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	9617682.0	13.98356	0.0	0.13525	1.545
Methane	0.329	26494858.0	55.94771	566.4	0.30989	9.523
Carbon Dioxide	0.380	309795.0	0.45530	0.0	0.00692	0.078
Ethane	0.417	7757541.0	10.81148	191.8	0.11224	2.903
Hydrogen Sulfide	0.601	0.0	0.00000	0.0	0.00000	0.000
Propane	0.524	22177893.0	11.33007	285.7	0.17250	3.134
i-Butane	0.576	3194698.0	1.40170	45.7	0.02813	0.461
n-Butane	0.607	8683711.0	3.73506	122.1	0.07496	1.182
i-Pentane	0.713	2181041.0	0.84338	33.8	0.02101	0.310
n-Pentane	0.756	2124176.0	0.78944	31.7	0.01967	0.287
Hexanes Plus	0.000	2303415.0	0.70230	0.0	0.00000	0.000
Water	0.000	0.0	0.00000	0.0	0.00000	0.000
Total:			100.00000	1277.2	0.88057	19.423

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	96.39750	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Water Mole%	-	1.74067
Gross Heating Value (BTU / Ideal cu.ft.)	1277.2	1255.0
Gross Heating Value (BTU / Real cu.ft.)	1282.7	1260.9
Relative Density (G), Real	0.8840	0.8798
Compressibility (Z) Factor	0.9957	0.9953
Total GPM	19.423	19.193

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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS

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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS
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 ANAYLSIS