

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. 30-045-35727
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. N0G14031908
3. Address of Operator 332 CR 3100 AZTEC NM 87410		7. Lease Name or Unit Agreement Name W LYBROOK UNIT
4. Well Location Unit Letter <u>N</u> : <u>1212</u> ' feet from the <u>S</u> line and <u>1366</u> ' feet from the <u>W</u> line Section <u>6</u> Township <u>23N</u> Range <u>8W</u> NMPM County <u>SAN JUAN</u>		8. Well Number 703H
		9. OGRID Number 372286
		10. Pool name or Wildcat LYBROOK MANCOS W
		11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6823'

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**

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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:

12/6/16

Rig Release Date:

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

SIGNATURE [Signature] 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

4

Diablo Analytical BTU Report

GPA 2145-03 Analysis

Sample Information

Sample Information	
Sample Name	WLU 703
Station Number	
Taken By	Alpine Analysis LLC
Operator	Travis Tapp
Method Name	StandardNatGas.met
Injection Date	2018-08-13 12:18:50
Report Date	2018-08-13 12:22:42
EZReporter Configuration File	default Standard Sample.cfgx
Source Data File	2018-08-13 12-18-39 (GMT -06-00)WLU 703-Rep2.dat
EZReporter Data File	WLU 703-20180813-122242.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	12415885.0	18.32683	0.0	0.17726	2.023
Methane	0.328	27144978.0	58.19350	589.1	0.32233	9.897
Carbon Dioxide	0.379	295860.0	0.44149	0.0	0.00671	0.076
Ethane	0.419	5589597.0	7.90877	140.3	0.08211	2.122
Hydrogen Sulfide	0.601	0.0	0.00000	0.0	0.00000	0.000
Propane	0.525	18110461.0	9.39301	236.9	0.14301	2.596
i-Butane	0.576	2778529.0	1.23768	40.3	0.02484	0.406
n-Butane	0.608	6587572.0	2.87663	94.1	0.05773	0.910
i-Pentane	0.714	1539281.0	0.60431	24.2	0.01505	0.222
n-Pentane	0.756	1420853.0	0.53606	21.5	0.01335	0.195
Hexanes Plus	0.000	1556107.0	0.48172	0.0	0.00000	0.000
Water	0.000	0.0	0.00000	0.0	0.00000	0.000
Total:			100.00000	1146.5	0.84239	18.447

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	94.95150	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Water Mole%	-	1.74067
Gross Heating Value (BTU / Ideal cu.ft.)	1146.5	1126.5
Gross Heating Value (BTU / Real cu.ft.)	1150.5	1130.9
Relative Density (G), Real	0.8450	0.8415
Compressibility (Z) Factor	0.9965	0.9961
Total GPM	18.447	18.233

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