Form 3160-5	UNITED STAT	ES				FORM APPROVED OMB No. 1004-0137
(June 2015)	DEPARTMENT OF THE				E	xpires: January 31, 2018
de la companya de la comp	BUREAU OF LAND MAN				5. Lease Serial No.	
					N0-G-1310-1841	
	RY NOTICES AND REPO				6. If Indian, Allottee	or Tribe Name
	his form for proposals : vell. Use Form 3160-3 (A					
SUBM 1. Type of Well	TIN TRIPLICATE - Other instru	uctions on pag	ie 2		7. If Unit of CA/Agr NMNM 135216A	reement, Name and/or No.
	Gas Well Other				8. Well Name and N	
2. Name of Operator					W Lybrook Unit # 9. API Well No.	749H
WPX Energy Production, L	LC				30-045-35744	
3a. Address PO Box 640 Aztec, NN	/ 87410	3b. Phone No. 505-333-18	(include area code) 08		10. Field and Pool or Lybrook Mancos	
4. Location of Well (Footage, Sec SHL: 828' FSL & 480' FEL, Sec		I			11. Country or Parisl San Juan, NM	h, State
BHL: 945'FNL & 336' FEL, Sec	19 T23N, R8W					
12.	CHECK THE APPROPRIATE B	OX(ES) TO INI	DICATE NATURE	OF NOTIC	CE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION			TYPE	OF ACTION	ON	
Notice of Intent	Acidize	Deepen		the second s	action (Start/Resume)	Water ShutOff
Livolice of intent	Alter Casing	Hydrauli	c Fracturing	Recla	mation	Well Integrity
Subsequent Report	Casing Repair	New Co	onstruction	Reco	mplete	Other Flared/Gas
Final Abandonment Notice	Change Plans	Plug and	d Abandon	Tem	porarily Abandon	Sample
	Convert to Injection	Plug Bac	k	Water	Disposal	<u></u>
completion of the involved op completed. Final Abandonme is ready for final inspection.)	erations. If the operation results in nt Notices must be filed only after	a multiple com all requirement	npletion or recompletes, including reclama	etion in a n ation, have	new interval, a Form is been completed and <b>CORD</b>	ust be filed within 30 days following 3160-4 must be filed once testing has been the operator has detennined that the site
	ell due to the frac activit	y on W Lybr			бН.	
Flared: 1/18/18-1,			LEB 03	2010		RECEIVED
Volumes: 22886.6		EAE		2	FICE	
Gas sample attacl	ned.	By:		- Joint		FEB 07 2010
14. I hereby certify that the foregoi	ng is true and correct. Name (Prin	ted/Typed)				
Lacey Granillo	A		Title Permit Tech			Farmington Field Office Bureau of Land Management
Signature ROU	VIX)		Date 2/8/18			
			ERAL OR STA		CEUSE	
Approved by		TORTED			OL USL	
Approved by			Title			Date
Conditions of approval, if any, are certify that the applicant holds legs which would entitle the applicant to	al or equitable title to those rights					
Title 18 U.S.C Section 1001 and Ti any false, fictitious or fraudulent s				and willful	lly to make to any dep	partment or agency of the United States
					OILC	ONS. DIV DIST. 3
			NMO	CD/		All St. All St.
					-	A 0010
					F	EBI4ZUIO, J

## Diablo Analytical BTU Report GPA 2145-03 Analysis

5.1

## Sample Information

	Sample Information
Sample Name	WLU 749
Station Number	
Taken By	Alpine Analysis LLC
Operator	Travis Tapp
Method Name	StandardNatGas.met
Injection Date	2018-01-24 15:30:04
Report Date	2018-01-24 15:34:42
EZReporter Configuration File	default Standard Sample.cfgx
Source Data File	2018-01-24 15-29-43 (GMT -07-00)WLU 749.dat
EZReporter Data File	WLU 749-20180124-153442.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	0.320	32244141.0	50.24550	0.0	0.48597	5.537
Methane	0.330	15329584.0	34.69379	351.2	0.19217	5.891
Carbon Dioxide	0.380	257236.0	0.40515	0.0	0.00616	0.069
Ethane	0.425	3005482.0	4.48931	79.6	0.04661	1.203
Hydrogen Sulfide	0.601	0.0	0.00000	0.0	0.00000	0.000
Propane	0.527	10397275.0	5.69285	143.6	0.08667	1.571
i-Butane	0.576	1744694.0	0.82041	26.7	0.01646	0.269
n-Butane	0.609	4562759.0	2.10334	68.8	0.04221	0.664
i-Pentane	0.714	1262637.0	0.52333	21.0	0.01304	0.192
n-Pentane	0.757	1275800.0	0.50821	20.4	0.01266	0.185
Hexanes Plus	0.000	1585312.0	0.51811	0.0	0.00000	0.000
Water	0.000	0.0	0.00000	0.0	0.00000	0.000
Total:			100.00000	711.3	0.90195	15.580

## **Results Summary**

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	89.94260	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Water Mole%	-	1.74067
Gross Heating Value (BTU / Ideal cu.ft.)	711.3	699.0
Gross Heating Value (BTU / Real cu.ft.)	712.7	700.5
Relative Density (G), Real	0.9033	0.8987
Compressibility (Z) Factor	0.9981	0.9978
Total GPM	15.580	15.414

Diablo Analytical BTU Report