



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

Analysis No: WP140328
Cust No: 85500-11045

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: CHACO 2307-12E #168H
County/State:
Location:
Field:
Formation:
Cust. Stn. No.: 62374163

Source:
Pressure: 62 PSIG
Sample Temp: 77 DEG. F
Well Flowing:
Date Sampled: 10/01/2014
Sampled By: JASON LUSK
Foreman/Engr.: CODY BOYD

RCVD OCT 3 '14
OIL CONS. DIV.
DIST. 3

30-039-31173

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	59.292	6.5330	0.00	0.5735
CO2	0.196	0.0330	0.00	0.0030
Methane	27.168	4.6120	274.39	0.1505
Ethane	4.838	1.2960	85.62	0.0502
Propane	4.149	1.1450	104.39	0.0632
Iso-Butane	0.791	0.2590	25.72	0.0159
N-Butane	2.322	0.7330	75.75	0.0466
I-Pentane	0.414	0.1520	16.56	0.0103
N-Pentane	0.370	0.1340	14.83	0.0092
Hexane Plus	0.460	0.2050	24.25	0.0152
Total	100.000	15.1020	621.52	0.9376

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0017
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 624.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 613.1
REAL SPECIFIC GRAVITY: 0.9388

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

DRY BTU @ 14.650: 620.6
DRY BTU @ 14.696: 622.6
DRY BTU @ 14.730: 624.0
DRY BTU @ 15.025: 636.5

CYLINDER #: CC #4
CYLINDER PRESSURE: 68 PSIG
DATE RUN: 10/2/14 1:52 PM
ANALYSIS RUN BY: JENNIFER DEAN



WPX ENERGY PRODUCTION, LLC
WELL ANALYSIS COMPARISON

Lease: CHACO 2307-12E #168H
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10/03/2014
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Smpl Date:	10/01/2014	08/04/2014	07/02/2014	06/03/2014	05/27/2014	05/22/2014	05/19/2014
Test Date:	10/02/2014	08/06/2014	07/09/2014	06/04/2014	05/28/2014	05/23/2014	05/22/2014
Run No:	WP140328	WP140278	WP140265	WP140173	WP140171	WP140161	WP140158
Nitrogen:	59.292	7.648	15.466	25.774	27.820	32.107	40.000
CO2:	0.196	0.402	0.396	0.438	0.395	0.371	0.352
Methane:	27.168	65.507	60.895	49.727	46.604	40.919	43.431
Ethane:	4.838	12.092	9.769	8.887	9.518	8.420	6.527
Propane:	4.149	8.923	7.920	8.679	9.149	10.475	5.776
I-Butane:	0.791	1.142	1.081	1.272	1.380	1.694	0.799
N-Butane:	2.322	2.634	2.656	3.168	3.215	4.194	1.999
I-Pentane:	0.414	0.597	0.624	0.727	0.682	0.798	0.433
N-Pentane:	0.370	0.534	0.565	0.652	0.590	0.663	0.363
Hexane+:	0.460	0.521	0.628	0.675	0.647	0.359	0.320
BTU:	624.0	1304.4	1196.9	1120.0	1110.7	1101.8	843.3
GPM:	15.1020	19.6330	18.8560	18.3890	18.3730	18.3040	16.5190
SPG:	0.9388	0.8287	0.8431	0.9045	0.9196	0.9593	0.8767
	05/12/2014	05/09/2014	04/07/2014	03/17/2014	03/12/2014	03/09/2014	02/16/2014
	05/14/2014	05/09/2014	04/09/2014	03/19/2014	03/13/2014	03/10/2014	02/24/2014
	WP140157	WP140156	WP140103	WP140094	WP140093	WP140082	WP140058
	44.811	59.320	10.151	22.646	32.710	44.328	7.357
	0.366	0.312	0.320	0.375	0.368	0.280	0.427
	38.538	29.907	55.475	53.493	46.804	37.197	64.164
	6.595	4.339	11.676	9.267	7.778	8.040	10.427
	5.856	3.490	11.497	9.305	7.212	6.400	9.863
	0.777	0.424	2.149	1.107	0.958	0.780	1.416
	1.860	1.039	5.370	2.496	2.354	1.990	3.435
	0.406	0.262	1.319	0.511	0.531	0.372	0.878
	0.371	0.262	1.114	0.437	0.474	0.290	0.846
	0.420	0.645	0.929	0.363	0.810	0.323	1.187
	796.1	571.5	1459.2	1119.3	987.9	816.6	1380.3
	16.2470	14.7340	20.6730	18.3780	17.4940	16.4460	20.0600
	0.8979	0.9071	0.9538	0.8695	0.8923	0.9044	0.8749



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02/07/2014	02/17/2014	02/01/2014	01/12/2014	12/30/2013	01/05/2014	12/23/2013
02/19/2014	02/18/2014	02/13/2014	01/28/2014	01/28/2014	01/06/2014	12/26/2013
WP140053	WP140045	WP140040	WP140025	WP140024	WP140004	WP130246
7.930	86.120	7.606	7.959	8.167	8.160	8.588
0.433	0.108	0.439	0.432	0.416	0.437	0.431
65.259	6.366	65.509	64.648	63.317	65.479	64.642
10.525	1.423	10.646	10.697	10.651	10.741	10.889
9.445	2.593	9.297	10.101	10.273	9.838	9.885
1.280	0.566	1.245	1.420	1.464	1.290	1.298
3.025	1.599	2.892	3.290	3.443	2.846	2.864
0.638	0.418	0.593	0.585	0.645	0.463	0.491
0.554	0.344	0.516	0.473	0.557	0.359	0.392
0.912	0.463	1.257	0.395	1.067	0.387	0.520
1328.0	281.1	1338.6	1321.8	1360.3	1295.4	1301.2
19.7210	12.8490	19.7930	19.6950	19.9490	19.5230	19.5710
0.8475	1.0024	0.8509	0.8437	0.8705	0.8289	0.8371
12/04/2013	11/25/2013	11/18/2013	11/11/2013	11/04/2013	10/24/2013	10/15/2013
12/05/2013	11/26/2013	11/25/2013	11/19/2013	11/11/2013	11/11/2013	10/24/2013
WP130229	WP130217	WP130212	WP130203	WP130197	WP130196	WP130187
10.274	9.670	9.406	9.839	10.235	12.490	12.629
0.439	0.429	0.450	0.419	0.432	0.424	0.417
64.561	65.248	64.699	63.622	65.147	63.972	61.981
9.966	10.536	10.847	10.373	10.458	10.332	10.845
9.162	9.365	9.451	9.903	8.735	8.586	9.244
1.263	1.195	1.192	1.375	1.056	1.005	1.076
2.997	2.627	2.681	3.251	2.441	2.182	2.333
0.579	0.423	0.514	0.535	0.453	0.384	0.418
0.461	0.333	0.433	0.411	0.381	0.320	0.360
0.298	0.174	0.327	0.272	0.662	0.305	0.697
1263.1	1252.9	1272.6	1286.5	1252.9	1200.2	1237.2
19.2820	19.2370	19.3840	19.4590	19.2310	18.8910	19.1650
0.8309	0.8176	0.8278	0.8409	0.8237	0.8138	0.8389



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09/17/2013	09/09/2013	09/09/2013	09/03/2013	08/27/2013	08/19/2013	08/12/2013
09/20/2013	09/12/2013	09/12/2013	09/05/2013	08/30/2013	08/20/2013	08/13/2013
WP130172	WP130165	WP130164	WP130159	WP130154	WP130148	WP130145
13.111	14.440	14.729	14.822	16.055	17.210	20.128
0.417	0.400	0.408	0.385	0.375	0.375	0.359
61.836	59.334	60.460	58.036	56.775	56.020	55.636
10.350	10.169	10.225	9.495	9.370	9.317	8.867
9.458	9.434	8.999	8.875	8.984	8.910	8.128
1.151	1.265	1.146	1.339	1.360	1.329	1.159
2.617	2.944	2.624	3.432	3.478	3.384	2.873
0.460	0.632	0.507	0.981	0.974	0.942	0.767
0.376	0.566	0.432	0.973	0.955	0.928	0.743
0.224	0.816	0.470	1.662	1.674	1.585	1.340
1221.2	1252.8	1210.7	1307.9	1297.4	1275.5	1193.3
19.0440	19.2520	18.9730	19.5770	19.5120	19.3710	18.8190
0.8338	0.8681	0.8442	0.9076	0.9139	0.9121	0.8901
08/06/2013	08/01/2013	07/22/2013				
08/09/2013	08/09/2013	07/23/2013				
WP130141	WP130140	WP130132				
23.151	26.283	38.911				
0.362	0.355	0.311				
53.137	45.148	39.349				
9.002	9.365	7.098				
8.065	10.057	7.395				
1.104	1.541	1.139				
2.684	3.883	2.934				
0.681	1.002	0.803				
0.655	0.951	0.776				
1.159	1.415	1.284				
1143.8	1212.4	978.1				
18.5220	19.0290	17.4360				
0.8906	0.9681	0.9514				