



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. NO290047
CUST. NO. 53800 - 10015

30-045-24484

WELL/LEASE INFORMATION

CUSTOMER NAME	NACOGDOCHES OIL & GAS	SOURCE	WELLHEAD
WELL NAME	NAVAJO A S-1	PRESSURE	50 PSI G
COUNTY/ STATE	SAN JUAN NM	SAMPLE TEMP	N/A DEG.F
LOCATION	28-27N-19W	WELL FLOWING	N
FIELD		DATE SAMPLED	08/31/2009
FORMATION		SAMPLED BY	R. BENALLY
CUST.STN.NO.		FOREMAN/ENGR.	

REMARKS HELIUM=4.9073 (49.073PPM)

COMPONENT	MOLE %	ANALYSIS		
		GPM**	B.T.U.*	SP.GR *
NITROGEN	93.346	0.0000	0.00	0.9028
CO2	0.041	0.0000	0.00	0.0006
METHANE	4.663	0.0000	47.21	0.0258
ETHANE	0.464	0.1241	8.23	0.0048
PROPANE	0.346	0.0953	8.73	0.0053
I-BUTANE	0.114	0.0373	3.72	0.0023
N-BUTANE	0.238	0.0750	7.78	0.0048
I-PENTANE	0.109	0.0399	4.37	0.0027
N-PENTANE	0.131	0.0475	5.26	0.0033
HEXANE PLUS	0.548	0.2445	28.98	0.0182
TOTAL	100.000	0.6635	114.28	0.9706

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0010	GPM, BTU, and SPG calculations as shown above are based on current GPA factors.
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	114.0	
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	112.9	
REAL SPECIFIC GRAVITY	0.9701	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	113.4	CYLINDER #	4155
DRY BTU @ 14.696	113.8	CYLINDER PRESSURE	133 PSIG
DRY BTU @ 14.730	114.0	DATE RUN	09/04/2009
DRY BTU @ 15.025	116.3	ANALYSIS RUN BY	AMANDA FLOREZ

NACOGDOCHES OIL & GAS
WELL ANALYSIS COMPARISON

LEASE : NAVAJO A S-1

WELLHEAD

4/9/2010

STN.NO.:

53800

10015

MTR.NO.:

SMPL DATE	08/31/2009	07/31/2009	06/26/2009	05/31/2009	04/30/2009	03/29/2009
TEST DATE	09/04/2009	08/04/2009	06/30/2009	06/03/2009	05/11/2009	03/31/2009
RUN NR.	NO290047	NO290043	NO290039	NO290034	NO290026	NO290019
NITROGEN	93.346	93.547	93.821	93.864	93.922	94.191
CO2	0.041	0.038	0.055	0.053	0.059	0.074
METHANE	4.663	4.636	4.625	4.603	4.528	4.387
ETHANE	0.464	0.452	0.448	0.437	0.433	0.411
PROPANE	0.346	0.319	0.306	0.287	0.287	0.270
I-BUTANE	0.114	0.097	0.091	0.081	0.081	0.077
N-BUTANE	0.238	0.198	0.184	0.161	0.159	0.152
I-PENTANE	0.109	0.088	0.078	0.068	0.074	0.062
N-PENTANE	0.131	0.111	0.098	0.087	0.084	0.078
HEXANE +	0.548	0.514	0.294	0.359	0.373	0.298
BTU	114.0	107.6	94.0	94.5	94.5	87.2
GPM	0.6635	0.6046	0.4870	0.4897	0.4954	0.4413
SP.GRAV.	0.9701	0.9683	0.9625	0.9634	0.9640	0.9624

02/13/2009	01/18/2009	12/31/2008	10/27/2008	09/28/2008	08/20/2008	07/14/2008
02/17/2009	01/20/2009	01/05/2009	11/30/2008	10/01/2008	08/29/2008	07/15/2008
NO290012	NO290006	NO290001	NO280064	NO280051	NO280046	NO280036
94.118	93.990	93.484	93.613	95.917	96.260	94.206
0.061	0.064	0.068	0.071	0.004	0.032	0.041
4.399	4.561	4.862	4.734	2.881	2.552	4.523
0.413	0.432	0.464	0.451	0.523	0.393	0.413
0.271	0.288	0.305	0.288	0.239	0.219	0.267
0.078	0.081	0.086	0.087	0.067	0.060	0.079
0.154	0.158	0.170	0.169	0.128	0.115	0.153
0.065	0.064	0.069	0.064	0.048	0.042	0.080
0.082	0.077	0.085	0.083	0.056	0.054	0.070
0.359	0.285	0.407	0.440	0.137	0.273	0.168
91.0	89.5	101.0	100.8	62.3	62.4	82.4
0.4728	0.4496	0.5274	0.5314	0.3669	0.3780	0.3876
0.9639	0.9618	0.9635	0.9653	0.9639	0.9679	0.9594

06/19/2008	05/15/2008	04/09/2008	03/14/2008	01/15/2008
06/20/2008	05/19/2008	04/10/2008	03/17/2008	01/18/2008
NO280030	NO280026	NO280015	NO280010	NO280001
94.133	94.048	95.192	94.913	93.838
0.103	0.128	0.073	0.245	0.111
4.507	4.532	3.701	3.409	4.705
0.406	0.416	0.324	0.333	0.440
0.263	0.272	0.255	0.277	0.288
0.074	0.080	0.082	0.116	0.085
0.141	0.158	0.126	0.202	0.168
0.155	0.072	0.045	0.091	0.064
0.061	0.071	0.053	0.120	0.080
0.157	0.223	0.149	0.294	0.221
83.5	85.5	68.3	81.8	88.5
0.3985	0.4137	0.3255	0.4749	0.4287
0.9602	0.9609	0.9611	0.9698	0.9605