



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

ANALYSIS NO. NO100013
CUST. NO. 53800 - 10025

30.045-21816

WELL/LEASE INFORMATION

CUSTOMER NAME	NACOGDOCHES OIL & GAS	SOURCE	WELLHEAD
WELL NAME	NAVAJO 5-2	PRESSURE	340 PSI G
COUNTY/ STATE	SAN JUAN NM	SAMPLE TEMP	N/A DEG.F
LOCATION	L05-26N-19W	WELL FLOWING	Y
FIELD		DATE SAMPLED	03/31/2010
FORMATION		SAMPLED BY	R. BENALLY
CUST.STN.NO.		FOREMAN/ENGR.	

REMARKS NITROGEN % INCLUDES: HE= 3.3465% (33,465 PPM)

COMPONENT	MOLE %	ANALYSIS		
		GPM**	B.T.U.*	SP.GR *
NITROGEN	95.220	0.0000	0.00	0.9210
CO2	0.230	0.0000	0.00	0.0035
METHANE	3.421	0.0000	34.63	0.0189
ETHANE	0.288	0.0770	5.11	0.0030
PROPANE	0.202	0.0556	5.09	0.0031
I-BUTANE	0.070	0.0229	2.28	0.0014
N-BUTANE	0.114	0.0359	3.73	0.0023
I-PENTANE	0.107	0.0391	4.29	0.0027
N-PENTANE	0.082	0.0297	3.29	0.0020
HEXANE PLUS	0.266	0.1187	14.07	0.0088
TOTAL	100.000	0.3790	72.49	0.9667

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG F.

COMPRESSIBILITY FACTOR (1/Z)	1.0000	GPM, BTU, and SPG calculations as shown above are based on current GPA factors.
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	72.5	
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	72.1	
REAL SPECIFIC GRAVITY	0.9667	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	72.1	CYLINDER #	4094
DRY BTU @ 14.696	72.4	CYLINDER PRESSURE	371 PSIG
DRY BTU @ 14.730	72.5	DATE RUN	04/07/2010
DRY BTU @ 15.025	74.0	ANALYSIS RUN BY	AMANDA FLOREZ

4/9/2010

53800 - 10025

MTR.NO. :

SMPL DATE	03/31/2010	01/31/2010	12/31/2009	11/27/2009	10/29/2009	09/30/2009
TEST DATE	04/07/2010	02/11/2010	01/13/2010	12/03/2009	11/04/2009	10/05/2009
RUN NR.	NO100013	NO100007	NO100002	NO290060	NO290056	NO290052
NITROGEN	95.220	94.167	93.062	94.605	95.332	94.567
CO2	0.230	0.063	0.192	0.058	0.519	0.097
METHANE	3.421	4.467	3.225	3.456	2.746	3.847
ETHANE	0.288	0.343	0.293	0.301	0.224	0.302
PROPANE	0.202	0.236	0.273	0.219	0.176	0.200
I-BUTANE	0.070	0.067	0.102	0.070	0.072	0.066
N-BUTANE	0.114	0.136	0.192	0.145	0.151	0.136
I-PENTANE	0.107	0.065	0.131	0.087	0.076	0.071
N-PENTANE	0.082	0.085	0.194	0.094	0.104	0.091
HEXANE +	0.266	0.371	2.336	0.965	0.600	0.623
BTU	72.5	89.6	191.1	110.7	82.2	95.1
GPM	0.3790	0.4416	1.4080	0.7059	0.5127	0.5372
SP.GRAV.	0.9667	0.9637	1.0198	0.9814	0.9784	0.9718

08/31/2009	07/31/2009	06/25/2009	05/31/2009	04/30/2009	03/29/2009	02/13/2009
09/04/2009	08/04/2009	06/30/2009	06/03/2009	05/11/2009	03/31/2009	02/17/2009
NO290048	NO290044	NO290037	NO290032	NO290028	NO290017	NO290014
95.150	95.269	95.162	95.574	95.587	95.592	95.072
0.098	0.180	0.374	0.376	0.352	0.244	0.238
3.598	3.258	3.105	2.971	3.056	3.163	3.415
0.299	0.275	0.266	0.263	0.259	0.273	0.284
0.222	0.208	0.213	0.212	0.201	0.210	0.205
0.065	0.071	0.070	0.070	0.065	0.053	0.067
0.133	0.163	0.146	0.146	0.134	0.095	0.141
0.096	0.086	0.075	0.069	0.066	0.053	0.078
0.077	0.094	0.099	0.089	0.080	0.077	0.110
0.262	0.406	0.490	0.230	0.200	0.240	0.390
74.5	78.9	81.3	65.6	63.5	64.8	79.6
0.3842	0.4489	0.4806	0.3577	0.3305	0.3325	0.4412
0.9649	0.9702	0.9738	0.9681	0.9665	0.9657	0.9693

01/18/2009	12/31/2008	11/30/2008	10/27/2008	09/28/2008	08/20/2008	07/14/2008
01/20/2009	01/05/2009	12/03/2008	11/30/2008	10/01/2008	08/28/2008	07/15/2008
NO290007	NO290003	NO280067	NO280062	NO280053	NO280047	NO280037
95.162	94.875	95.920	95.166	96.622	96.997	95.170
0.178	0.150	0.642	0.229	0.030	0.078	0.081
3.454	3.695	2.543	3.375	2.260	1.967	3.685
0.302	0.314	0.197	0.292	0.406	0.337	0.299
0.227	0.223	0.198	0.214	0.188	0.167	0.203
0.073	0.072	0.063	0.072	0.061	0.053	0.068
0.154	0.150	0.129	0.149	0.125	0.109	0.139
0.078	0.078	0.057	0.070	0.058	0.050	0.084
0.098	0.093	0.071	0.092	0.071	0.064	0.079
0.274	0.350	0.180	0.341	0.179	0.178	0.192
74.9	81.1	55.2	76.5	55.6	49.4	71.2
0.4020	0.4346	0.2954	0.4186	0.3465	0.3087	0.3469
0.9665	0.9670	0.9698	0.9687	0.9675	0.9684	0.9631

NACOGDOCHES OIL & GAS
WELL ANALYSIS COMPARISON

LEASE : NAVAJO 5-2	WELLHEAD	4/9/2010	
STN.NO.:		53800 -	10025
MTR.NO.:			

SMPL DATE	06/19/2008	05/15/2008	04/09/2008	03/14/2008	02/11/2008	01/15/2008
TEST DATE	06/20/2008	05/19/2008	04/10/2008	03/25/2008	02/12/2008	01/18/2008
RUN NR.	NO280032	NO280028	NO280017	NO280012	NO280007	NO280003
NITROGEN	95.134	95.162	95.129	95.785	95.133	95.808
CO2	0.083	0.061	0.140	0.349	0.098	0.422
METHANE	3.687	3.650	3.666	2.772	3.673	2.705
ETHANE	0.300	0.300	0.299	0.240	0.301	0.258
PROPANE	0.207	0.208	0.205	0.199	0.207	0.214
I-BUTANE	0.069	0.068	0.067	0.070	0.068	0.072
N-BUTANE	0.141	0.140	0.138	0.146	0.140	0.149
I-PENTANE	0.088	0.068	0.067	0.068	0.070	0.070
N-PENTANE	0.081	0.082	0.078	0.084	0.081	0.085
HEXANE +	0.210	0.261	0.211	0.287	0.229	0.217
BTU	72.6	74.2	71.3	65.7	72.7	62.3
GPM	0.3595	0.3749	0.3487	0.3713	0.3610	0.3517
SP.GRAV.	0.9636	0.9644	0.9635	0.9703	0.9638	0.9696