Submit·3 Copies To Appropriate District Office District I	State of New Energy, Minerals and	· · ·	Form C-103 June 19, 200
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, winerars and	Tuturai Resources	WELL API NO.
District II	OIL CONSERVAT	ION DIVISION	30-045-24364
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St.		5. Indicate Type of Lease  STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, N		6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			
SUNDRY NOTIC	CES AND REPORTS ON W		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS. DIFFERENT RESERVOIR. USE "APPLICATION"			Elliott Gas Com S
PROPOSALS.)		ior, rok ocen	8. Well Number
<ol> <li>Type of Well: Oil Well</li></ol>	Gas Well 🛛 Other		9. OGRID Number
BP America Production Company	<i>!</i>		000778
3. Address of Operator			10. Pool name or Wildcat
P.O. Box 3092 Houston, Tx 77253	-3092		Basin Dakota
4. Well Location			
Unit Letter <u>F</u> :_	feet from theNo		
Section 33		lange 09W	NMPM San Juan County
	11. Elevation (Show whether	er DR, RKB, RT, GR, 5775'	etc.)
12. Check A	ppropriate Box to Indica	ate Nature of Noti	ce, Report or Other Data
NOTICE OF IN	CENTION TO:	6	LIBOSOLIENT DEDODT OF
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🛛	•	UBSEQUENT REPORT OF:  /ORK $\square$ ALTERING CASING $\square$
TEMPORARILY ABANDON	CHANGE PLANS	l l	DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL		
DOWNHOLE COMMINGLE		G/10/110/02/	LANT COST
OTHER: Repair Wellhead		☑ OTHER:	
			dates, including estimated date of starting any proposed wor
SEE RULE 1103. For Multiple Co.  Reference RBDMS KGR0930		of proposed completion (	or recompletion.
Please see attached procedure	e for wellhead repairs t	o resolve the int	ermediate annulus issue.
-		-	current wellbore schematic w/formatio
& cmt tops & method used to	determine TOC & gas	s analysis from c	sg strings. RCVD JAN 13'10
			OIL CONS. DIV.
Should you have any question	is please call Jesse Gra	cia @281-366-19	DIST. 3
			0131. 0
11/12/1980		_	
Spud Date: 11/12/1980	Rig Relea	ase Date:	DI31. 0
pud Date: 11/12/1980	Rig Relea	ase Date:	DIST. 5
pud Bate.			
pud Date: 11/12/1980 hereby certify that the information a			ledge and belief.
hereby certify that the information a	bove is true and complete to	the best of my know	
hereby certify that the information a	bove is true and complete to	the best of my know	ledge and belief.
hereby certify that the information a signature_Cherry Hlana_	bove is true and complete to  TITLE Regulato	the best of my know	ledge and belief.  : DATE 01/11/2010
hereby certify that the information a	bove is true and complete to  TITLE <u>Regulato</u> E-mail addi	the best of my know  ory Analyst  ress: hlavacl@bp.	ledge and belief.  DATE 01/11/2010  com PHONE: 281-366-4081
hereby certify that the information a  IGNATURE_Cherry Hlava  Type or print nameCherry Hlava  Tor State Use Only	bove is true and complete to  TITLE <u>Regulato</u> E-mail addr	the best of my know  ory Analyst  ress: <u>hlavacl@bp.</u>	ledge and belief.  DATE 01/11/2010  com PHONE: 281-366-4081
hereby certify that the information a  IGNATURE_Cherry Hlana_  Type or print nameCherry Hlava_	bove is true and complete to  TITLE <u>Regulato</u> E-mail addr	the best of my know  ory Analyst  ress: hlavacl@bp.	ledge and belief.  DATE 01/11/2010  com PHONE: 281-366-4081 s Inspector,

Notify NMOCD 24 hrs prior to beginning operations



# **BP - San Juan Wellwork Procedure**

# Elliott GC S 1E Wellhead Repair (Version 1)

## **General Information:**

Formation: DK Job Objective: Replace Wellhead January 6, 2010 Project #: Date: **p.** 281.366.1946 Jesse Gracia **c.** 713.828.0715 Engineer: **Production Contact:** Sedrick Gurule **p.** 505.947.1588 C.

Optimizer: Allan Pillars **p.** 505.326.9248 Backup Engineer: Amy Adkison **p.** 281.366.4495

## **Well Information:**

# **Production Data:**

**API Number: 30-045-24364** Tubing Pressure: 100-150 psi **BP WI:** 75% Casing Pressure: 200 psi Run #: 32 Line Pressure: 80 psi Surface Location: Sec. 33, T30N, R09W Pre-rig Gas Rate: 20 MCFD – 100 MCFD Meter Number: 93548 Anticipated Uplift: 0 MCFD **Well FLAC:** 842209-DK Water Rate: 1 BWPD **Cost Center:** 1000193136-DK **CO2 (%):** 2.354 Lease FLAC: 290241-DK H2S (PPM): N/A Restrictions: N/A **Gas BTU:** 1022 Artificial Lift Type: Plunger (see details)

Regulatory Agency: BLM & NMOCD Compressed (Y/N): N

### **Basic Job Procedure:**

- 1. POOH with 2 3/8" tubing.
- 2. Set barriers and replace casing and tubing spool on wellhead.
- 3. Run in hole with 2 3/8" tubing and land at +/- 6950'

# **Safety and Operational Details:**

#### ALL work shall comply with DWOP E&P Defined Operating Practice.

The well has a history of producing paraffin.

Super seal plunger and equipment in well - Fish plunger and equipment, before setting plugs. Save paraffin samples if recovered on equipment and communicate to Allan Pillars to send to Greg Romalho for analysis.

### Well History:

The Elliott GC S 1E was drilled and completed in the Dakota in 1981 by Amoco and was worked over in 2001 to cleanout 86' fill and replace tubing. Wireline repots in 2007 and 2008 indicated that this well produces paraffin. The master valve was replaced in 2008. This well has pressure communication between the casing and intermediate annuli and BP has received a letter from the NMOCD to fix that issue. Wellhead seals were pressure tested in 2009 by Donny Selman and failed. Donny injected Seal-Tight (or similar product) but that did not resolve the problem. Field Tech reported seeing seal-tight material in plunger lubricator the following day.

#### **Standard Location Work:**

- Perform pre-rig site inspection, size of location, gas taps, other wells, other operators, running equipment, wetlands, wash, H2S barriers if needed for equipment. Landowner issues, buried lines in pits, raptor nesting, critical location, check anchors. Check ID wellhead, determine if equipment is acceptable or obsolete and replace if necessary, if digging is required have One Call made 48 hours. Follow ground disturbance policy.
- 2. Perform second site visit, checking anchors and barriers if needed. Ensure lines are marked so that they clearly designate pit locations. Discuss and turnover handover sheet with someone from operations team and wells team. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

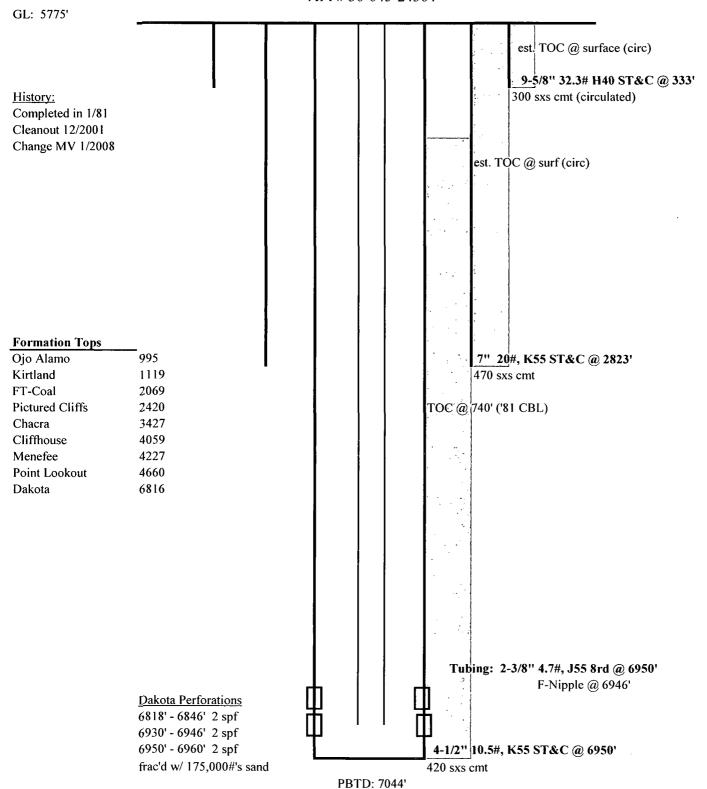
## Rig Procedure:

- 3. Contact Kelly Roberts, with NMOCD, 24hrs before wellhead replacement work is initiated at 505-334-6178 ext 16.
- 4. Hold pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, proper PPE and 8 golden rules of safety/IFF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
- 5. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into DIMS. Bradenhead test from 2008 indicated communication between casing and intermediate string. The bradenhead seemed to be isolated from well pressure.
- 6. MIRU workover rig.
- 7. Insure double casing valves are installed. Spot and lay 3" line and tank to blow down well, record pressures while blowing well down if possible.
- 8. Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA. RU unit with a lubricator and BOP. Pressure test lubricator and BOP to 250psi for 5 min and 700psi full test. Chart results and record passing test in DIMS.
- 9. Call Optimizer (Allan Pillars) to confirm status of plunger equipment in the well. Retrieve plunger and plunger equipment. Two barriers will need to set in order to break containment (Plugs in downhole profiles, CW plugs with triple slip stop, or Plug in profile). Each time the lubricated connection is broken, it will need to be pressure tested for a 5 min test and document in DIMS. Contact engineering if these barriers cannot be used. If wellhead has profile for Back Pressure valve, rig up High Tech, pressure test lubricator and equipment to set two-way check in wellhead profile. Test will need to be charted and recorded in DIMS.
- 10. Blow down well and kill with inhibited (2% KCl or equivalent clay stabilizer water) if necessary.
- 11. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the flow back tank. Pressure test BOPs. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. Remove wellhead back pressure valve if used.
- 12. Pull tubing hanger and shut pipe rams and install stripping rubber.

- 13. PU extra joints of 2-3/8" tubing and tag PBTD. POOH with 2-3/8" J-55 4.7#/ft production tubing currently set @ 6950'. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from Air Company).
- 14. Note location of any paraffin buildup along tubing string and replace any damaged or plugged joints.
- 15. TIH with bit and scraper for 4 ½" casing to +/- 6960'.
- 16. Set 2 mechanical barriers in well. Tubing set Retrievable bridge plug @ ~ 6300' and compression packer @ 200'.
- 17. Remove tubing head and evaluate options to configure proper seal configuration for wellhead. Contact Engineer to discuss options before proceeding.
- 18. Test wellhead using test ports to ensure primary and secondary seals are set and holding pressure properly.
- 19. RIH with 2-3/8" production tubing (with wireline entry guide, 1.78" profile 'F-nipple' with plug, 4 ft pup, 1.875" ID profile 'X-nipple with plug).
- 20. Land 2-3/8" production tubing at **+/- 6950'**. Lock down hanger. Using standard BHA with plugs in place (Muleshoe on bottom, F nipple = 1.780" ID profile, ~4' tubing sub, X nipple = 1.880" ID profile on top).
- 21. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Pressure test will need to be charted and recorded undisturbed for 30 minutes. Check all casing string for pressure.
- 22. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead if capable.
- 23. RU WL unit, pressure test and chart as necessary. **Run Broach for 2-3/8" tubing.** Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel. RD slickline unit.
- 24. Purge well, test well for air. Return well to production.
- 25. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Have discussion with production engineer/optimizer about particulars of well when handing off the well file.

# Elliott GC S #1E

Sec 33, T30N, R9W API # 30-045-24364



# NOTES:

Wellhead seals are not holding pressure between production and intermediate casing will need to replace casing and tubing spool in order to fix problem

updated: 12/12/09 JG



# NEW MEXICO E. RGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil, CONSERVATION DIVISION
AZTEC DISTRICT OFFICE,
1000 RIO BRAZOS ROAD
AZTEC, NM 87410
[505 334-6178 FAX: (505) 294-8170
http://www.ernnid.state.hm.us/pod/

# **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Date of Test	6-25-	<u>⊘</u> 8 Operator	BP America Produ	otion Company	API # 3004524364
Property Name ELLIOTT GC S 001E-DK (Well Name and Number)		Location: U	nit <b>F</b> Section 33	Township 30 Renge 9	
Pressure (Sh	ut-in or Producing	)) Tubing $h$	<u>68</u> Interm <b>e</b> diate	<u>/63</u> Casing	$\underline{/48}$ Bradenhead $\underline{/8}$
OPEN	BRADENHEAD /	ND INTERMEDIAT	E TO ATMOSPHER	E INDIVIDUALLY F	OR 15 MINUTES EACH
Time	Brade	ng Intermediate	Intermediate Ceal	-	Bradenhead intermediate Flowed Flowed
5 minutes 10 minutes 16 minutes 20 minutes 25 minutes 30 minutes 5 minute Si	D   168   D	163 163 163		Steady  Su  Down to Not  No  Gas and W	inges  thing Iman 205re  Flow  Gas
<u>if bradenhe</u> Clear	ad flowed water, Fresh	check all of the de	scriptions that appl	v below:	Black
5 Minute St REMARKS:	" valve e	on B.H.		we Changel o	
MIF N	3r.£		NEVEN OF	100 yds	to wash
	- Jeco	to Phy.	Witness		



# NEW MEXICO E. ..: RGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



Oil, CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, HM 87410
[505 334-6178 FAX: (505) 294-8170
http://www.ernord.state.nm.us/pod/

# **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Date of Test	6-25-08	Operator	BP America Productio	n Company	API#	3004524364	
Property Name		C S 001E-DK	Location: Unit I	F Section 33	Township -	30 Ranga 9	
Pressure (Shut	-in or reducing)	•	8 Intermediate $4$	<u>∕⁄-3</u> Casing <i>∑</i>	<u> </u>	denheed <u>[8</u>	
OPEN B	RADENHEAD AND	INTERMEDIATE	TO ATMOSPHERE IN	DIVIDUALLY FO	R 15 MINUT	ES EACH	
5 minutes 10 minutes 16 minutes 20 minutes 25 minutes 30 minutes 5 minute SI	Bradenher  BH Casing Blowdown Monitor  O 168  O 168  O 168  I 68	Intermediate   Monitor	Intermediate Intermediate Blowdown Monitor  112 140  102 120  94 112  120 120  scriptions that apply be	No Fit G Gas and Wa Wa	Flows ow less ling /min / ling ow las / line fer	X	
Clear Fresh Satty Sulfur Black  5 Minute Shut-in Bradenhead Intermediate 120  REMARKS: In Valve on B.H. Bal I Valve Change out No D.6  I' Valve on T.M. Need to Change out I Valve on T.M.  Never Black  By Mutato Change out I Valve on T.M.  (Position)  Witness							

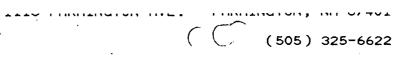


OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NM 87410 (505 334-6178 FAX: (505) 334-6170 http://www.emnrd.state.nm.us/ocd/

# **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

			(+=====			,		
Date of Test	April	<u> 28-0</u>	S Operator	BP America	Production	Company A	API# 300	)4524364
Property Name	e EL	LIOTT G	C S 001E - DK	Locatio	on: Unit F	Section 33 To	ownship 30	Range 9
		(Well Name	and Number)					
Pressure (Shu	Pressure (Shut-in or Producing) Tubing 65 Intermediate 80 Casing 80 Bradenhead 0							
OPEN	BRADENHI	EAD AND	INTERMEDIA	TE TO ATMOS	PHERE IND	WIDUALLY FOR	15 MINUTES E	ACH
ſ		Bradenhe	ad	Interme	diate		Dundanhaad	l4
<u>Time</u>	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		Flowed	Intermediate Flowed
5 minutes	Diowdown	·		80	80	Steady Flow		30 mins
10 minutes				00	72	Surges		
15 minutes					40	Down to Nothing		
20 minutes					65	No Flow	X_	
25 minutes					62	Gas		
30 minutes					60	Gas and Water		
5 minute SI	0			70	70	Water		<u></u>
<u>lf bradenhe</u>	ad flowed w	/ater, che	ck all of the de	escriptions tha	t apply bel	<u>ow:</u>		
Clear	Fı	resh _	Salt	y	Sulfur	Blac	ck	_
5 Minute Shut-in Bradenhead Intermediate								
REMARKS:								
Ву	Ą	edes	inc	Wi	tness	**************************************	· · · · · · · · · · · · · · · · · · ·	·····
		<i>7e</i>	ck	•				
		(Position	)					





ANALYSIS NO. AM030159

### WELL/LEASE INFORMATION

COMPANY: AMOCO PRODUCTION COMPANY PRESSURE: 50 PSIG

WELL NAME: ELLIOTT GAS COM 1E SAMPLE TEMP.: DEG.F

LOCATION: F 33-30-9

WELL FLOWING: NO

FORMATION:

DATE SAMPLED: 5/13/93

COUNTY: SAN JUAN, NM

SAMPLED BY: B. GARRISON-L & L

SAMPLE SRC: BRADENHEAD

PROD FOREMAN: LARRY HUMPHREY

REMARKS:

#### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.* 9	SP. GR.*
NITROGEN	1.051	0.0000	0.00	0.0102
C02	0.059	0.000	0.00	0.0009
METHANE	87.298	0.0000	883.71	0.4835
ETHANE	6.890	1.8389	122.21	0.0715
PROPANE	2.823	0.7763	71.20	0.0430
I-BUTANE	0.480	0.1567	15.65	0.0096
N-BUTANE	0.673	0.2118	22.01	0.0135
I-PENTANE	0.228	0.0834	9.16	0.0057
N-PENTANE	0.151	0.0546	6.07	0.0038
HEXANE	0.347	0.1511	17.85	0.0112
TOTAL	100.000	3.2728	1147.86	0.6529

# \* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.696 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z)

1.0028

BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)

1148.5

BTU/CU.FT. (WET) CORRECTED FOR (1/Z)

1128.5

REAL SPECIFIC GRAVITY

0.6544

### ANALYSIS RUN AT 14.696 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 26 PSIG

CYLINDER NO.: GAS-026

DATE RUN:

5/13/93

ANALYSIS RUN BY: SEENA SPENCER



# 1115 FARMINGTON AVE. ( \_\_INGTON, NM 87401

(505) 325-6622

ANALYSIS NO. AMO30160

#### WELL/LEASE INFORMATION

COMPANY: AMOCO PRODUCTION COMPANY PRESSURE: 520 PSIG

WELL NAME: ELLIOTT GAS COM 1E SAMPLE TEMP.: DEG.F

LOCATION: F 33-30-9 WELL FLOWING: NO

FORMATION: DATE SAMPLED: 5/13/93

COUNTY: SAN JUAN, NM SAMPLED BY: B. GARRISON-L & L

SAMPLE SRC: CASING PROD FOREMAN: LARRY HUMPHREY

REMARKS:

#### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP. GR.*
NITROGEN	0.086	0.0000	0.00	0.0008
CO2	1.875	0.0000	0.00	0.0285
METHANE	94.558	0.0000	957.20	0.5238
ETHANE	2.590	0.6913	45.95	0.0269
PROPANE	0.442	0.1215	11.14	0.0067
I-BUTANE	0.140	0.0458	4.57	0.0028
N-BUTANE	0.086	0.0270	2.81	0.0017
I-PENTANE	0.061	0.0222	2.44	0.0015
N-PENTANE	0.027	0.0099	1.10	0.0007
HEXANE	0.135	0.0588	6.95	0.0043
TOTAL	100.000	0.9765	1032.16	0.5977

### \* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.696 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) 1.0023
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z) 1032.1
BTU/CU.FT. (WET) CORRECTED FOR (1/Z) 1014.1
REAL SPECIFIC GRAVITY 0.5988

### ANALYSIS RUN AT 14.696 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 477 PSIG

CYLINDER NO.: GAS-002

DATE RUN: 5/13/93

ANALYSIS RUN BY: SEENA SPENCER



# 1115 FARMINGTON AVE. FINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. AMO30161

#### WELL/LEASE INFORMATION

COMPANY: AMOCO PRODUCTION COMPANY PRESSURE: 460 PSIG

WELL NAME: ELLIOTT GAS COM 1E SAMPLE TEMP.: DEG.F

LOCATION: F 33-30-9 WELL FLOWING: NO

FORMATION: DATE SAMPLED: 5/13/93

COUNTY: SAN JUAN, NM SAMPLED BY: B. GARRISON-L & L

SAMPLE SRC: INTERMEDIATE CASING PROD FOREMAN: LARRY HUMPHREY

**REMARKS:** 

#### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP. GR.*
NITROGEN	0.101	0.0000	0.00	0.0010
C02	0.665	0.0000	0.00	0.0101
METHANE	86.586	0.0000	876.52	0.4796
ETHANE	7.785	2.0777	138.08	0.0808
PROPANE	3.204	0.8809	80.80	0.0488
I-BUTANE	0.487	0.1589	15.87	0.0098
N-BUTANE	0.704	0.2213	23.00	0.0141
I-PENTANE	0.187	0.0684	7.52	0.0047
N-PENTANE	0.120	0.0433	4.82	0.0030
HEXANE	0.161	0.0701	8.29	0.0052
TOTAL	100.000	3.5206	1154.90	0.6571

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.696 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) 1.0029

BTU/CU.FT. (DRY) CORRECTED FOR (1/Z) 1155.6

BTU/CU.FT. (WET) CORRECTED FOR (1/Z) 1135.5

REAL SPECIFIC GRAVITY 0.6586

ANALYSIS RUN AT 14.696 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 435 PSIG

CYLINDER NO.: GAS-045A

DATE RUN: 5/13/93

ANALYSIS RUN BY: SEENA SPENCER



### AMOCO PRODUCTION COMPANY

# WELL ANALYSIS COMPARISON

LEASE: ELLIOTT GAS COM 1E MAY 14, 1993

	BRADENHEAD	CASING	INT
DATE:	5/13/93	5/13/93	5/13/93
NO . :	30159	30160	30161
	MOLE %	MOLE %	MOLE %
NITROGEN	1.051	0.086	0.101
C02	0.059	1.875	0.665
METHANE	87.298	94.558	86,586
ETHANE	6.890	2.590	7.785
PROPANE	2.823	0.442	3.204
I-BUTANE	0.480	0.140	0.487
N-BUTANE	0.673	0.086	0.704
I-PENTANE	0.228	0.061	0.187
N-PENTANE	0.151	0.027	0.120
HEXANE+	0.347	0.135	0.161
BTU'S	1148.5	1032.1	1155.6
GPM	3.2728	0.9765	3.5206
GRAVITY	0.6544	0.5988	0.6586