Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
SF - 077123

6. If Indian, Allottee or tribe Name

2006 JUL 21 PM 7 12

7. If Unit or CA/Agreement, Name and/or No.

RECEIVED
070 FARMINGTON NM

AUG 2006
OIL CONS. DIV.
DIST. 3

1. Type of Well
☐ Oil Well ■ Gas Well ☐ Other

8. Well Name and No.
Warren Com 2

2. Name of Operator
BP AMERICA PRODUCTION COMPANY

9. API Well No.
30-045-20063

3a. Address
PO BOX 3092 HOUSTON, TX 77253

3b. Phone No. *(include area code)*
281-366-4081

10. Field and Pool, or Exploratory Area
BASIN DAKOTA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1990' FSL & 1585' FEL: SEC 14 T28N R09W SWNE Mer NMP

11. County or Parish, State
SAN JUAN, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	■ Other **Casing Repair** NMOCD Demand Letter
	☐ Change Plans	☐ Plug and Abandon	☐ Water Disposal	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

BP requests permission to repair casing leak per the procedure attached.
Please call Andrew Berhost should you have any technical questions @ 505-326-9208

BP America received certified letter sent June 22, 2006 from NMOCD regarding Bradenhead failure on the above mentioned well. Attached please find the procedure to repair the casing leak and also requested documents:

1. Last 2 bradenhead tests
2. Current wellbore schematic with formation tops
3. Gas analysis from both the production & intermediate casing.

14. I hereby certify that the foregoing is true an dcorrect
Name (Printed/typed)

Cherry Hlava | Title **Regulatory Analyst**

Signature Cherry Hlava | Date **07/19/06**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Jim Lovato | Title Pet. Eng. | Date 7/28/06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter witin its jurisdiction.

NMOCD

SJ Basin Casing Repair Procedure

Well Name: **Warren Com 2 DK**
Version: **1.0**
Date: **June 26, 2006**
Repair Type: **Intermediate Casing Repair**
Location: **T28N-R9W-Sec14**
API #: **30-045-20063**
State: **New Mexico**
County: **San Juan**
Horizon: **DK**

Engr: Andrew Berhost
ph (505) 326-9208
mobile: (505) 486-0139
fax (505) 326-9262

Objective: Pull tubing, RIH with RBP and packer to locate casing leak, squeeze casing, Pressure test casing, remove RBP, cleanout wellbore, and return to production.

1. TOH with completion string.
2. RIH with RBP and packer to locate casing leak.
3. Squeeze casing leak
4. Pressure test casing
5. Pull RBP
6. Cleanout wellbore
7. Return well to production.

History: Well completed in 6/67 as single DK. Well failed bradenhead test with over 700psig on the intermediate casing. Intermediate casing blew down to 100psig in 15mins built back up to 125 psig in 15mins. The well has not shown bradenhead pressure and intermediate casing pressures have been equal to casing pressure. Well pressure data leads to suspect leak on 4-1/2" into 7" casing above 2600'.

Pertinent Information: Gas BTU content for this well is 1221; Sp gr. is 0.7149. Last sample was taken 9/1/05. Venting and Flaring document needs to be followed if BTU content is above 950.

Reference:
NOP 7812-01 Normal Operating Procedure Under balanced Well Control Tripping Procedure.
NOP 7804-01 Normal Operating Procedure Wellbore Air Purge.
NOP 7803-01 Procedure for At Risk Well Locations.
NOP 7814 Procedure for Flowback Operations

Procedure:

1. Contact State and Federal agencies prior to starting well repair work.

2. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead; if earth pit is required have One Call made 48 hours prior to digging.

3. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and scheduling to ready location for rig.

4. RU slickline unit. Pressure test lubricator and equipment. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in tubing string.

5. Check and record tubing, intermediate casing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.

6. MIRU workover rig. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

7. Blow down well. Kill with 2% KCL water ONLY if necessary.

8. Check all casing strings to ensure no pressure exist on any annulus. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**

9. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.

10. Install stripping rubber, pull tubing hanger and shut pipe rams. Strip tubing hanger out of hole.

11. RIH and tag PBTD - 7020', then TOOH with 2-3/8" production tubing currently set at 7005'. Visually inspect tubing while POOH.

12. TIH with bit and scraper for 4-1/2" casing to top of DK perforations @ 6800'. TOH.

13. TIH with 4-1/2" RBP and packer. Set RBP 100' above DK perforations @6700'. TOH one joint and set packer. Pressure test RBP to 1,000psi.

14. After RBP pressure test is confirmed good, move up hole to 4500' with work string and packer and pressure test lower portion of 4-1/2" casing to 1,000psi. Pressure test upper interval above packer thru casing while testing lower portion thru tubing packer at 500psig. (DV tool is set at ~5100' and expect approximately 1000' of cement on top of DV tool – expect lower portion, below 4500', to test good.)

15. If no leak found on lower end (tubing side) and pressure will not hold on upper end (casing side) move uphole to 2600' and set packer. Pressure test upper and lower portion of casing at 500psig lower and 500 psig upper.

16. Continue up hole in same fashion at 500' intervals until leak is found and leak interval can be isolated. If leak interval length is greater than 100' than contact engineer before proceeding on repair work.

17. Establish injection rate into leak and attempt to circulate to surface. If leak found below 5100' circulation to surface will not be possible as DV tool and 2nd stage cement should be present at 5100' (no cement top information).

18. Release packer and spot sand on RBP and TOH with packer.

19. Perforate thru 4-1/2" casing around depth of located leak.

20. Depending on depth of hole and circulating pressure, a packer or cement retainer may be needed.

21. Mix and pump sufficient cement to circulate to surface if leak found above 1500'. If leak is found below 1500' contact engineer for squeeze repair plan and volumes. In general if the leak is above 4500' attempt to squeeze cement with bradenhead valve shut and attempt to walk squeeze to obtain a 750 psi squeeze pressure. WOC.

22. TIH with bit and scraper and drill out cement. Pressure test casing to 750 psi. TOH with bit and scraper.

23. RU air package and clean out to top of RBP.

24. Load casing with fluid and run CBL from 6700' to surface.

25. TIH with retrieving head for RBP. Circulate sand off of RBP and TOH RBP.

26. RU WL and tag for fill. Cleanout to PBTD, if needed. TOH.

27. RIH with new 2-3/8" original production tubing, if tubing inspected to be in good condition. (With muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).

28. Land 2-3/8" production tubing at +/- 6960'. Lock down tubing hanger.

29. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to the surface. Check all casing string for pressure. **The operations of removal of BOP's and installation of wellhead will be performed under a dispensation for one (1) barrier on the backside.**

30. 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.

31. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.

32. RD slickline unit.

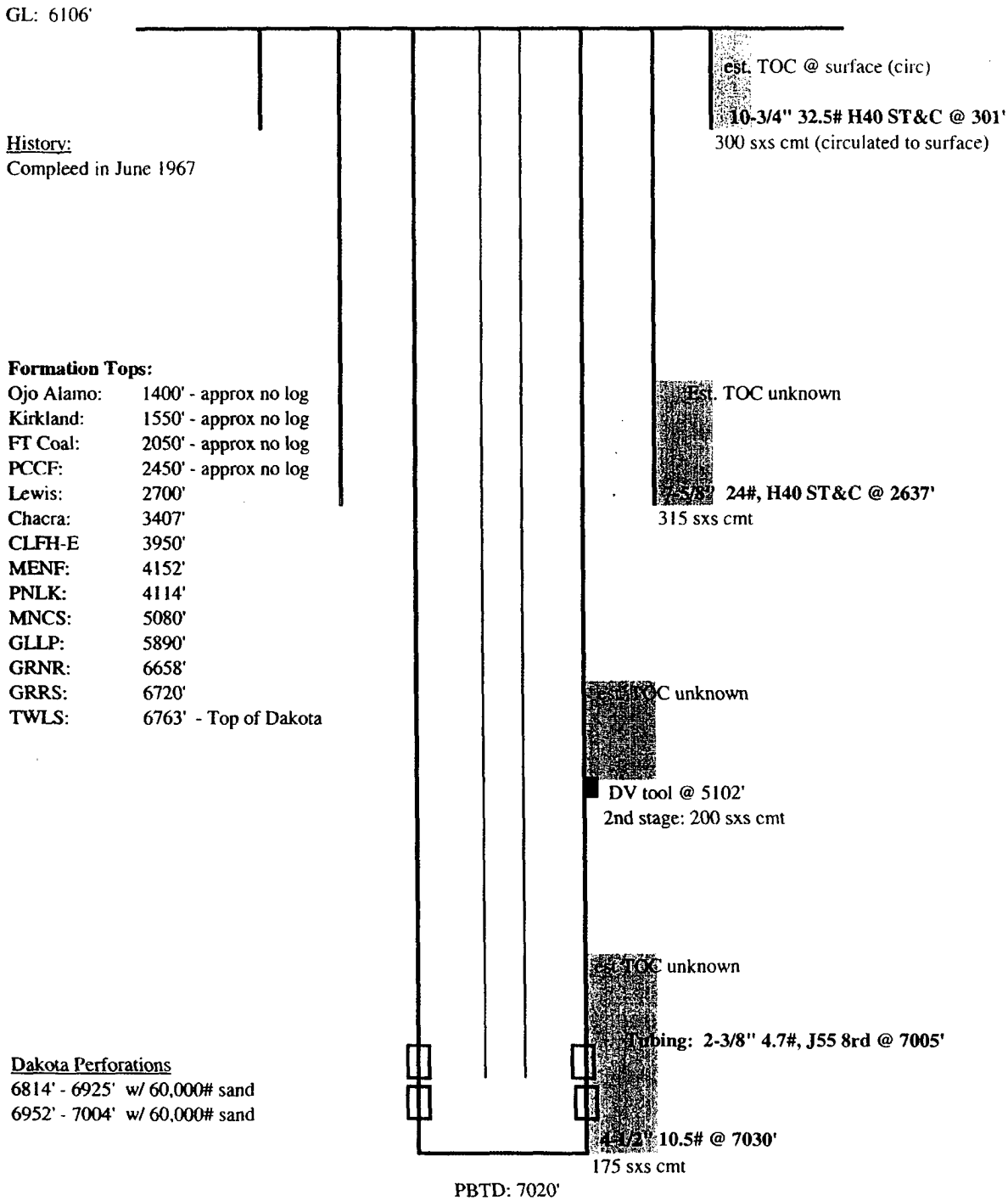
33. Test well for air. Return well to production. RD and release all equipment. Remove all LOTO equipment.

34. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Have discussion with production about particulars of well when handing off the well file.

Warren Com #2

Sec 14, T28N, R9W

API # 30-045-20063



NOTES:

1) Tested tubing for leak in Jan 2002. Blew csg to 0 psi. Field commented well acted like it had a packer. There is no packer in the well.
2) Failed intermetiate casing pressure test - tested over 700 psig (May 2006)

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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 05/03/06 **Operator** Amoco Production Company **API #** 3004520063

Property Name WARREN COM 002-DK **Location:** Unit G Section 14 Township 28 Range 9

(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 250 Intermediate 700 Casing 255 Bradenhead 10

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor
5 minutes	0	255	700	500	255
10 minutes	0	255	700	250	250
15 minutes	0	255	700	105	238
20 minutes					
25 minutes					
30 minutes					
5 minute SI	0			122	

	Bradenhead Flowed	Intermediate Flowed
Steady Flow		X
Surges		
Down to Nothing	X	
No Flow		
Gas	X	X
Gas and Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

Clear _____ Fresh _____ Salty _____ Sulfur _____ Black _____

REMARKS:

Bradenhead pressure down to nothing in 25 seconds. Intermediate pressure steady flow for 15 minutes, 122 after 5 minute shut-in. 1" valve on bradenhead.

By Ray Ledesma **Witness** _____

NMOCD Test Area: B

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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 08/27/03 **Operator** Amoco Production Company **API #** 3004520063

Property Name WARREN COM 002 **Location:** Unit G Section 14 Township 28 Range 9

(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 390 Intermediate 50 Casing 360 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor
5 minutes					
10 minutes					
15 minutes					
20 minutes					
25 minutes					
30 minutes					
5 minute SI	0			0	

	Bradenhead Flowed	Intermediate Flowed
Steady Flow		
Surges		
Down to Nothing		X
No Flow	X	
Gas		X
Gas and Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

Clear _____ Fresh _____ Salty _____ Sulfur _____ Black _____

REMARKS:

Intermediate down to nothing in 10 minutes.

By Harry Whitson **Witness** _____

NMOCD Test Area: B

GAS ANALYSIS SERVICE

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

ANALYSIS NO. BP260004
CUST. NO. 12305 - 10010

WELL/LEASE INFORMATION

CUSTOMER NAME	BP AMERICA/FARMINGTON	**SOURCE**	CASING
WELL NAME	WARREN COM 2	**PRESSURE**	530 PSIG
COUNTY/ STATE	SAN JUAN NM	**SAMPLE TEMP**	70 DEG.F
LOCATION	EPCO	**WELL FLOWING**	N/A
FIELD		**DATE SAMPLED**	7/11/2006
FORMATION	DAKOTA	**SAMPLED BY**	JIM PENROD
CUST.STN.NO.	75709 RTU 425	**FOREMAN/ENGR.**	BRENT BENNETT

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.312	0.0000	0.00	0.0030
CO2	0.292	0.0000	0.00	0.0044
METHANE	85.896	0.0000	869.53	0.4758
ETHANE	7.503	2.0055	133.09	0.0779
PROPANE	3.700	1.0188	93.31	0.0563
I-BUTANE	0.662	0.2165	21.58	0.0133
N-BUTANE	0.851	0.2683	27.83	0.0171
I-PENTANE	0.260	0.0951	10.43	0.0065
N-PENTANE	0.184	0.0666	7.39	0.0046
HEXANE PLUS	0.340	0.1496	17.48	0.0109
TOTAL	100.000	3.8204	1,180.64	0.6699

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,184.3
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,164.6
REAL SPECIFIC GRAVITY		0.6720

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,177.9
DRY BTU @ 14.696	1,181.6
DRY BTU @ 14.730	1,184.3
DRY BTU @ 15.025	1,208.0

CYLINDER #	1217
CYLINDER PRESSURE	470 PSIG
DATE RUN	7/14/2006
ANALYSIS RUN BY	ROSEANN MUNIZ

GAS ANALYSIS SERVICE

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

ANALYSIS NO. BP260005
CUST. NO. 12305 - 10015

WELL/LEASE INFORMATION

CUSTOMER NAME	BP AMERICA/FARMINGTON	**SOURCE**	INTER.CASING
WELL NAME	WARREN COM 2	**PRESSURE**	475 PSIG
COUNTY/ STATE	SAN JUAN NM	**SAMPLE TEMP**	70 DEG.F
LOCATION	EPCO	**WELL FLOWING**	N/A
FIELD		**DATE SAMPLED**	7/11/2006
FORMATION	DAKOTA	**SAMPLED BY**	JIM PENROD
CUST.STN.NO.	75709 RTU 425	**FOREMAN/ENGR.**	BRENT BENNETT

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.336	0.0000	0.00	0.0033
CO2	0.313	0.0000	0.00	0.0048
METHANE	85.340	0.0000	863.90	0.4728
ETHANE	7.661	2.0477	135.89	0.0795
PROPANE	3.950	1.0876	99.62	0.0601
I-BUTANE	0.710	0.2322	23.14	0.0143
N-BUTANE	0.900	0.2837	29.43	0.0181
I-PENTANE	0.276	0.1010	11.07	0.0069
N-PENTANE	0.200	0.0724	8.04	0.0050
HEXANE PLUS	0.314	0.1381	16.14	0.0101
TOTAL	100.000	3.9628	1,187.23	0.6747

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,190.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,171.1
REAL SPECIFIC GRAVITY	0.6770

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,184.4
DRY BTU @ 14.696	1,188.2
DRY BTU @ 14.730	1,190.9
DRY BTU @ 15.025	1,214.8

CYLINDER #	1230
CYLINDER PRESSURE	424 PSIG
DATE RUN	7/14/2006
ANALYSIS RUN BY	ROSEANN MUNIZ

GAS ANALYSIS SERVICE

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

ANALYSIS NO. BP260006
CUST. NO. 12305 - 10020

WELL/LEASE INFORMATION

CUSTOMER NAME	BP AMERICA/FARMINGTON	**SOURCE**	TUBING
WELL NAME	WARREN COM 2	**PRESSURE**	290 PSIG
COUNTY/ STATE	SAN JUAN NM	**SAMPLE TEMP**	70 DEG.F
LOCATION	EPCO	**WELL FLOWING**	N/A
FIELD		**DATE SAMPLED**	7/11/2006
FORMATION	DAKOTA	**SAMPLED BY**	JIM PENROD
CUST.STN.NO.	75709	**FOREMAN/ENGR.**	BRENT BENNETT
	RTU 425		

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.502	0.0000	0.00	0.0049
CO2	1.437	0.0000	0.00	0.0218
METHANE	81.809	0.0000	828.15	0.4532
ETHANE	9.344	2.4976	165.74	0.0970
PROPANE	3.872	1.0661	97.65	0.0590
I-BUTANE	0.819	0.2679	26.70	0.0164
N-BUTANE	1.080	0.3405	35.32	0.0217
I-PENTANE	0.427	0.1563	17.12	0.0106
N-PENTANE	0.298	0.1079	11.97	0.0074
HEXANE PLUS	0.412	0.1812	21.18	0.0133
TOTAL	100.000	4.6174	1,203.83	0.7053

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,207.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,187.7
REAL SPECIFIC GRAVITY	0.7080

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,201.2
DRY BTU @ 14.696	1,205.0
DRY BTU @ 14.730	1,207.8
DRY BTU @ 15.025	1,232.0

CYLINDER #	1209
CYLINDER PRESSURE	242 PSIG
DATE RUN	7/14/2006
ANALYSIS RUN BY	ROSEANN MUNIZ