



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC NM 87410  
(505) 334-6178 FAX: (505) 334-6170  
<http://emnr.state.nm.us/oed/District/III/3district.htm>

## BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8-29-12 Operator For STAR Oil-gar API # 30-045-31935

Property Name Hsloe Fed B Well No 45 Location: Unit      Section 23 Township 29 Range 12W

Well Status (Shut-In) or Producing Initial PSI: Tubing 0.3 Intermediate 14.2 Casing 20.2 Bradenhead 98.7

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

| Testing | PRESSURE |     |      | INTERM |     |  |
|---------|----------|-----|------|--------|-----|--|
|         | BH       | Int | Csg  | Int    | Csg |  |
| TIME    | vers     | n/a | 20.3 | n/a    |     |  |
| 5 min   | Light    |     |      |        |     |  |
| 10 min  | vers     |     | 20.0 |        |     |  |
|         | Light    |     |      |        |     |  |
| 15 min  | vers     |     | 19.8 |        |     |  |
|         | Light    |     |      |        |     |  |
| 20 min  | vers     |     | 19.5 |        |     |  |
|         | Light    |     |      |        |     |  |
| 25 min  | vers     |     | 19.3 |        |     |  |
|         | Light    |     |      |        |     |  |
| 30 min  | vers     |     | 19.1 |        |     |  |
|         | Light    |     |      |        |     |  |

| FLOW CHARACTERISTICS          |              |
|-------------------------------|--------------|
| BRADENHEAD                    | INTERMEDIATE |
| Steady Flow <u>Very Light</u> |              |
| Surges                        |              |
| Down to Nothing               |              |
| Nothing                       |              |
| Gas                           |              |
| Gas & Water                   |              |
| Water                         |              |

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

CLEAR      FRESH      SALTY      SULFUR      BLACK     

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 6.1

INTERMEDIATE n/a

REMARKS:

Down To vapor in 16 sec Then very Light Blow for  
Light gurgling sound can be heard from BHead  
gas samples pulled from csg and BHead

By Randy caldore

Witness                                     

Caldore service  
(Position)

E-mail address Randy.c@caldoreservices.com



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

Analysis No: CH120048  
Cust No: 74000-11380

### Well/Lease Information

Customer Name: CHEVRON TEXACO  
Well Name: HJ LOE FED B 4 & 5 BHD  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: BRADENHEAD  
Pressure: 99 PSIG  
Sample Temp: DEG. F  
Well Flowing: N  
Date Sampled: 08/29/2012  
Sampled By: CALDER  
Foreman/Engr.: KORY COFFIE

Remarks:

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 1.592   | 0.1750  | 0.00    | 0.0154       |
| CO2         | 0.007   | 0.0010  | 0.00    | 0.0001       |
| Methane     | 93.183  | 15.8280 | 941.15  | 0.5161       |
| Ethane      | 3.832   | 1.0270  | 67.81   | 0.0398       |
| Propane     | 0.983   | 0.2710  | 24.73   | 0.0150       |
| Iso-Butane  | 0.173   | 0.0570  | 5.63    | 0.0035       |
| N-Butane    | 0.133   | 0.0420  | 4.34    | 0.0027       |
| I-Pentane   | 0.044   | 0.0160  | 1.76    | 0.0011       |
| N-Pentane   | 0.024   | 0.0090  | 0.96    | 0.0006       |
| Hexane Plus | 0.029   | 0.0130  | 1.53    | 0.0010       |
| Total       | 100.000 | 17.4390 | 1047.91 | 0.5952       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1052.7

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1034.4

REAL SPECIFIC GRAVITY: 0.5963

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

DRY BTU @ 14.650: 1047.0

DRY BTU @ 14.696: 1050.3

DRY BTU @ 14.730: 1052.7

DRY BTU @ 15.025: 1073.8

CYLINDER #: 4085

CYLINDER PRESSURE: 90 PSIG

DATE RUN: 8/30/12 2:05 PM

ANALYSIS RUN BY: LOGAN CHENEY



CHEVRON TEXACO  
WELL ANALYSIS COMPARISON

Lease: HJ LOE FED B 4 & 5 BHD  
Stn. No.:  
Mtr. No.:

BRADENHEAD

09/04/2012  
74000-11380

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Smpl Date: 08/29/2012  
Test Date: 08/30/2012  
Run No: CH120048  
  
Nitrogen: 1.592  
CO2: 0.007  
Methane: 93.183  
Ethane: 3.832  
Propane: 0.983  
I-Butane: 0.173  
N-Butane: 0.133  
I-Pentane: 0.044  
N-Pentane: 0.024  
Hexane+: 0.029  
  
BTU: 1052.7  
GPM: 17.4390  
SPG: 0.5963



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

Analysis No: CH120046  
Cust No: 74000-11375

### Well/Lease Information

Customer Name: CHEVRON TEXACO  
Well Name: HJ LOE FED B 4 & 5 CSG  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: CASING  
Pressure: 20 PSIG  
Sample Temp: DEG. F  
Well Flowing: N  
Date Sampled: 08/29/2012  
Sampled By: CALDER  
Foreman/Engr.: KORY COFFIE

Remarks:

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.493   | 0.0540  | 0.00    | 0.0048       |
| CO2         | 0.367   | 0.0630  | 0.00    | 0.0056       |
| Methane     | 98.656  | 16.7540 | 996.43  | 0.5465       |
| Ethane      | 0.388   | 0.1040  | 6.87    | 0.0040       |
| Propane     | 0.045   | 0.0120  | 1.13    | 0.0007       |
| Iso-Butane  | 0.014   | 0.0050  | 0.46    | 0.0003       |
| N-Butane    | 0.007   | 0.0020  | 0.23    | 0.0001       |
| I-Pentane   | 0.003   | 0.0010  | 0.12    | 0.0001       |
| N-Pentane   | 0.000   | 0.0000  | 0.00    | 0.0000       |
| Hexane Plus | 0.027   | 0.0120  | 1.42    | 0.0009       |
| Total       | 100.000 | 17.0070 | 1006.65 | 0.5629       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1011.0  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 993.4  
REAL SPECIFIC GRAVITY: 0.5638

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

DRY BTU @ 14.650: 1005.5  
DRY BTU @ 14.696: 1008.7  
DRY BTU @ 14.730: 1011.0  
DRY BTU @ 15.025: 1031.2

CYLINDER #: 6209  
CYLINDER PRESSURE: 18 PSIG  
DATE RUN: 8/31/12 2:03 PM  
ANALYSIS RUN BY: LOGAN CHENEY



CHEVRON TEXACO  
WELL ANALYSIS COMPARISON

Lease: HJ LOE FED B 4 & 5 CSG  
Stn. No.:  
Mtr. No.:

CASING

09/04/2012  
74000-11375

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Smpl Date: 08/29/2012  
Test Date: 08/31/2012  
Run No: CH120046

Nitrogen: 0.493  
CO2: 0.367  
Methane: 98.656  
Ethane: 0.388  
Propane: 0.045  
I-Butane: 0.014  
N-Butane: 0.007  
I-Pentane: 0.003  
N-Pentane: 0.000  
Hexane+: 0.027

BTU: 1011.0  
GPM: 17.0070  
SPG: 0.5638



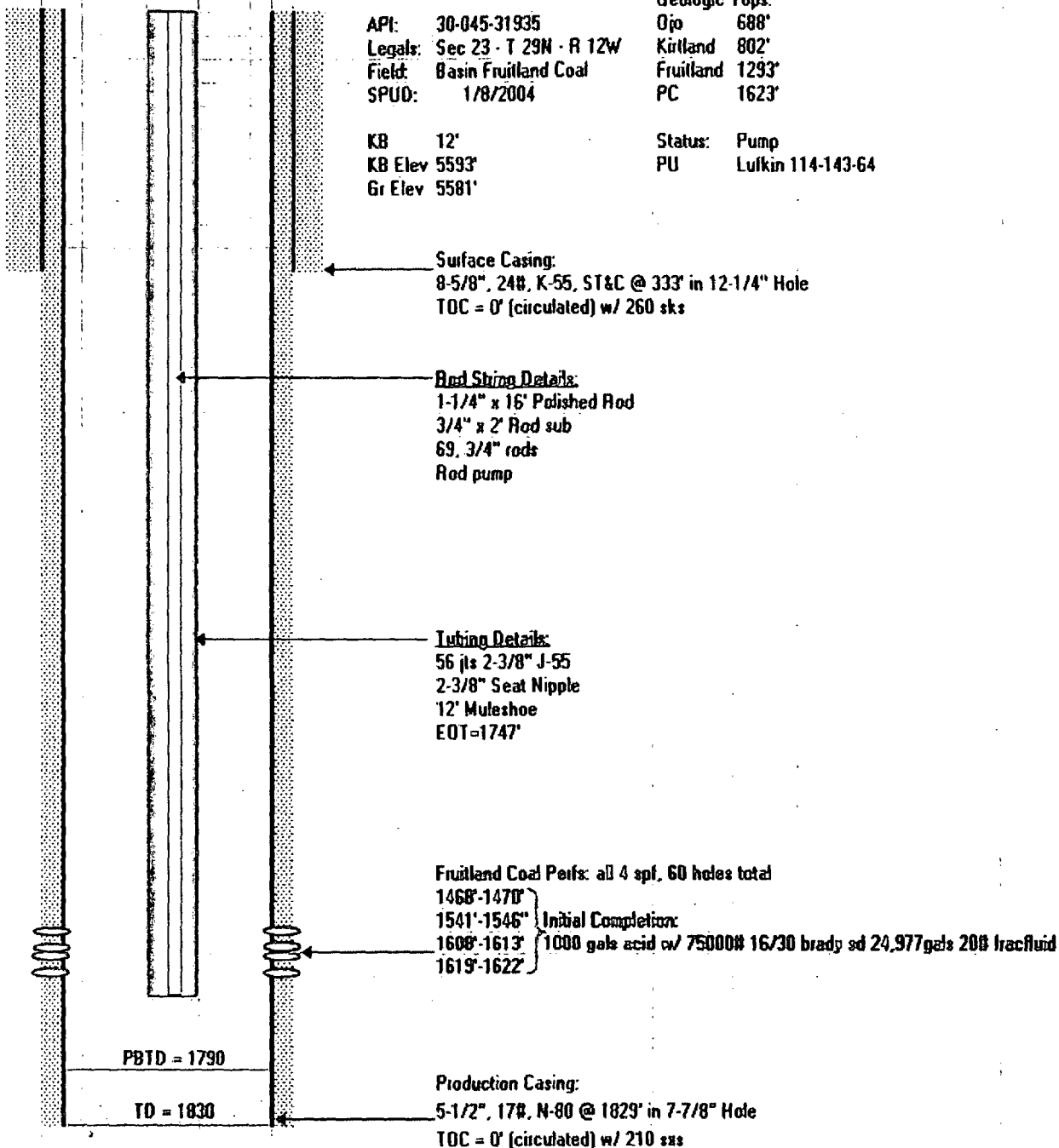
HJ Loe B-4S  
San Juan County, New Mexico  
Current Well Schematic as of 2008

API: 30-045-31935  
Legals: Sec 23 - T 29N - R 12W  
Field: Basin Fruitland Coal  
SPUD: 1/8/2004

Geologic Tops:  
Ojo 688'  
Kirtland 802'  
Fruitland 1293'  
PC 1623'

KB 12'  
KB Elev 5593'  
Gr Elev 5581'

Status: Pump  
PU Lufkin 114-143-64



Prepared by: Jarrod Sparks  
Date: 10/1/2008

Revised by:  
Date: