



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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April 6, 2004

Mr. Warren Hanks
Quicksilver Resources, Inc. - Wimp Central Processing Facility
777 West Rosedale Street, Suite 300
Fort Worth, Texas 76104

Re: 061-18442-00028
Permit Review Request

Dear Mr. Hanks:

The Quicksilver Resources, Inc. - Wimp Central Processing Facility was issued a FESOP No.: F061-15934-00028 on December 18, 2002 for a natural gas compressor station, located at SE 1/4, NE 1/4, Section 31, T4S, R4E, Corydon, Indiana 47112. On January 26, 2004, the Office of Air Quality (OAQ) received a letter from Quicksilver Resources, Inc. - Wimp Central Processing Facility requesting a review of the permitting level for conducting production tests on a fifteen (15) well drilling program at the natural gas compressor facility located in Harrison County.

The Permittee stated that this production test will temporarily vent gas into the atmosphere at a rate of 200 million cubic foot per day (MMCF/day) for a maximum of 30 to 45 days. The potential HAP emissions were extrapolated annually to calculate the worst case scenario and were negligible. The proposed production tests do not have any state or federal requirements that are applicable. Therefore, no further permitting action is required.

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this review request to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanober Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/SD

cc: File - Harrison County
Harrison County Health Department
Air Compliance Section Inspector - Ray Schick
Compliance Data Section
Administrative and Development - Sara Cloe
Technical Support and Modeling - Michele Boner

**Appendix A: Emission Calculations
Gas Analysis Emissions**

Company Name: Quicksilver Resources, Inc. - Wimp Central Processing Facility
Address: SE1/4, NE1/4, Sec. 31, T4S, R4E, Corydon, Indiana 47112
Exemption: 061-18442
Pit ID: 061-00028
Reviewer: ERG/SD
Date: March 2, 2004

Data Provided by the Source:

Density of Gas (lb/gal) = 5.31
 Gas Emitted (MMCF/day) = 200

Components of Gas	Weight %	PTE (lb/hour)	PTE (ton/year)
Oxygen	0.001%	3.31E-09	1.45E-08
Nitrogen	0.360%	1.19E-06	5.22E-06
Carbon Dioxide	8.310%	2.75E-05	1.21E-04
Methane	91.18%	3.02E-04	1.32E-03
Ethane	0.140%	4.64E-07	2.03E-06
Propane	0.001%	3.31E-09	1.45E-08
Iso-Butane	0.010%	3.31E-08	1.45E-07
Normal Butane	0.001%	3.31E-09	1.45E-08
Iso-Pentane	0.001%	3.31E-09	1.45E-08
Normal Pentane	0.001%	3.31E-09	1.45E-08
Hexane Plus	0.001%	3.31E-09	1.45E-08
TOTAL	100.0%		

Note: Although the Permittee intends to vent gas for a maximum of 30 to 45 days, the emissions were extrapolated annually to calculate the worst case potential to emit.

METHODOLOGY

PTE (lbs/hour) = Gas Emitted (MMCF/day) * Weight % Gas * Density (lb/gal) * 1 day/24 hours * 7.48 gal/ 10⁶ MMCF

PTE (tons/year) = Gas Emitted (MMCF/day) * Weight % Gas * Density (lb/gal) * 1 day/24 hours * 7.48 gal/ 10⁶ MMCF * 8760 hours/year * 1 ton/2000 lbs