



NAVAJO NATION ENVIRONMENTAL PROTECTION AGENCY
Underground Injection Control Program
P.O. Box 1999
Shiprock, New Mexico 87420
(505) 368-1040
nnepauic@frontiernet.net



Ben Shelly
PRESIDENT

Rex Lee Jim
VICE-PRESIDENT

September 17, 2013

Vision Energy (Praxair)
c/o Brian Wood, Permits West, Inc.
37 Verano Loop
Santa Fe, NM
87508

Re: Minor Permit Modification: NNEPA/UIC Permit NN 4 (Class IID) - USG 18 #43
Hogback Field, San Juan County, NM

Dear Mr. Wood:

Pursuant to your request:

II.C.5(b) *Injection Fluid Limitation* - The disposal of produced waters from the Pennsylvanian and Mississippian Formations derived from Hogback Field may be included with Dakota Formation produced water as set forth under this permit.

All other parameters and conditions in Permit NN 4 shall be unchanged, and remain in full force and effect.

This change constitutes a minor permit modification and no public notice will be necessary.

If you have any questions, you may contact me at the above letterhead address/telephone number.

Sincerely,

A handwritten signature in black ink, appearing to read "William E. Freeman".

William E. Freeman
Sr Hydrologist/Program Manager
NNEPA/UIC Program Shiprock

| | | | | | | | | | | |
|--------------------------|-------------------------------|----------------|--------------|-----------------|---|---|--|--|--|--|
| Water Type: | Receiving Formation (Entrada) | Dakota | Penn. | Miss. | 1/3 Each Mix - Dakota, Penn. & Miss. (calculated) | | | | | |
| Well: | USG 19 #17 | UGS Section 19 | Navajo C 1 | Hamrah Navajo 1 | | | | | | |
| API # | 30-045-26420 | 30-045-08082 | 30-045-08885 | 30-045-08479 | | | | | | |
| Location: | I-19-29n-16w | G-19-29n-16w | D-1-29n-17w | N-11-29n-17w | | | | | | |
| Distance from USG 18 #43 | 1.5 miles | 1.15 miles | 2.4 miles | 1.9 miles | | | | | | |
| TDS (mg/L) | 82190 | 90216 | 71206 | 58769 | 78558 | Calculated Separately - balanced with sodium ions | | | | |
| Sulfate (SO) | 993 | 764 | 1099 | 1770 | 1265 | PHREEQC-balanced with sodium ions | | | | |
| Chloride (Cl) | 49756 | 54553 | 43000 | 34353 | 46160 | PHREEQC-balanced with sodium ions | | | | |
| Bicarbonate (HCO3) | 465 | 608 | 427 | 261 | 453 | PHREEQC-balanced with sodium ions | | | | |

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

2013 OCT 18 P 2: 20

October 18, 2013

Phil Goetze
NM Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

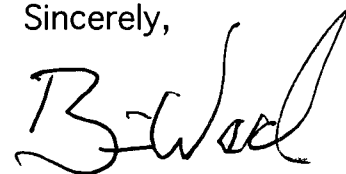
Dear Phil,

On behalf of Vision Energy Group LLC I am requesting an amendment to SWD-642 for the USG 18 #143 (30-045-26420) to allow for the disposal of Pennsylvanian and Mississippian water in this well. It is currently permitted to accept only Dakota water. Only Dakota wells currently produce in the field. However, Vision will spud its first Pennsylvanian-Mississippian well (Hogback Deep 12 #34) this week.

Attached are sample results from WAIDS, including a calculated mix of the 3 water types. Also attached is The Navajo EPA UIC approval.

Please call me if you have any questions.

Sincerely,



Brian Wood

cc: Afolabi