

~~OIL & GAS CONSERVATION COMMISSION~~  
~~MINUTES OF MEETING / JULY 20, 2012~~  
STEVEN L. RAUZI, OIL & GAS ADMINISTRATOR

NOTICE OF COMBINED PUBLIC MEETING AND POSSIBLE EXECUTIVE SESSION

**OIL AND GAS CONSERVATION COMMISSION**

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Oil and Gas Conservation Commission and to the general public that the Oil and Gas Conservation Commission will hold a meeting open to the public on July 20, 2012, at 10:00 a.m. in Room 321 of the State Land Department Building located at 1616 West Adams Street, Phoenix, Arizona 85007.

The agenda for the meeting is as follows:

1. Call to Order
2. Approval of Minutes of Meeting of April 20, 2012
3. Conflicts of interest
4. Report of Oil & Gas Administrator about new permits and drilling activity
5. Requests by HNZ Potash, American West Potash, and Passport Potash to extend confidential status on their stratigraphic wells in the Holbrook Basin.
6. Status of the Kinder Morgan project between St Johns and Springerville and possible report from a representative of Kinder Morgan
7. Review of drilling performance bonds
8. Report about Interstate Oil & Gas Compact Commission midyear meeting in Vancouver
9. Call to the public: This is the time for the public to comment. Members of the Commission may not discuss items that are not on the agenda. Therefore, action taken as a result of public comment will be limited to directing staff to study the matter or scheduling the matter for further discussion and decision at a later date.
10. Announcements
11. Adjournment

The Oil and Gas Conservation Commission may vote to go into Executive Session, pursuant to A.R.S. § 38-431.03(A)(3) or (4), which will not be open to the public, to consult with its attorney and receive legal advice with respect to any regular agenda item listed on this agenda.

A copy of the agenda background material provided to Commission members (with the exception of material relating to possible executive sessions) is available for public inspection at the Oil and Gas Administrator's office, 416 West Congress, Suite 100, Tucson, Arizona 85701.

The public may be afforded an opportunity to comment on any item on the agenda; however, at the beginning of the meeting, the Commission may vote to set up a time limit on individual comments.

Dated this 12th day of July 2012

OIL AND GAS CONSERVATION COMMISSION



Steven L. Rauzi  
Oil and Gas Program Administrator

*Persons with a disability may request a reasonable accommodation such as a sign language interpreter, by contacting Steve Rauzi at (520) 770-3500. Requests should be made as early as possible to allow time to arrange the accommodation. This document is available in alternative formats by contacting Steve Rauzi at (520) 770-3500.*

## OIL AND GAS CONSERVATION COMMISSION

416 West Congress #100  
Tucson, Arizona 85701

Minutes of Meeting  
April 20, 2012

### Present:

Dr. J. Dale Nations, Chairman  
Mr. Robert L. Wagner, Vice-chairman  
Mr. Frank Thorwald, Member  
Mr. Steven L. Rauzi, Oil and Gas Program Administrator

Dr. Nations, Chairman, called the regular Commission Meeting of April 20 to order at 10:00 a.m. in Room 321, State Land Department Building in Phoenix, Arizona.

### APPROVAL OF THE MINUTES OF THE MEETING OF JANUARY 20, 2012

Mr. Wagner moved, seconded by Mr. Thorwald:

THAT THE MINUTES OF THE MEETING OF JANUARY 20, 2012, BE ACCEPTED AS PRESENTED

Motion carried unanimously.

### CONFLICTS OF INTEREST

None

### REPORT OF THE OIL AND GAS ADMINISTRATOR

The activity report of Mr. Rauzi was sent to the Commissioners and has been made a part of these minutes. Mr. Rauzi reported that 12 new permits were issued and three wells were drilled since the January 2012 meeting. He noted that all but one permit were for potash tests. Mr. Rauzi reported that Triomphe Energy LLC was drilling below 2000 ft at its oil test about 15 miles north of Holbrook.

Mr. Rauzi reported that he completed an inspection of both the Plains LPG and Enterprise Products LPG storage facilities near Luke and Holbrook respectively. He reported that both facilities were in good condition and that Enterprise was testing the integrity and measuring the capacity of four wells.

### FIVE-YEAR REVIEW OF OIL AND GAS RULES

Mr. Rauzi reported that he submitted the five-year-review report to the Governor's Regulatory Review Council (GRRC) on March 22. He noted that he added a sentence at the suggestion of a GRRC attorney to complete the rulemaking by December 2013 if the Governor's rulemaking moratorium ended as scheduled in June 2012.

### STATUS OF THE KINDER MORGAN PROJECT BETWEEN ST JOHNS AND SPRINGERVILLE AND POSSIBLE REPORT FROM RIDGEWAY

Mr. Rauzi handed out a map showing all the wells that Ridgeway had drilled and highlighting the wells that Kinder Morgan was currently performing well head maintenance on for its upcoming well work (workovers). Mr. Peavy passed out 17 slides and presented Kinder Morgan's development plans for the St. Johns Gas Unit. He described (1) a subsurface plan to develop a mineralogical and reservoir model and perform 4-point well tests coupled with workovers and stimulations to validate existing information and learn best practices to be applied to future drilling and well completions; (2) a surface plan including front-end engineering and design, environmental and cultural studies, and to

engage stakeholders; and (3) a pipeline and facilities scope of work including route selection, hydraulic studies, power availability, valve studies, basic engineering, preliminary land work and centerline surveys, cultural and ecological surveys, and preparation and submission of an environmental impact statement. Mr. Peavy anticipated a facilities start up date by late 2015 to 2016 and an ultimate sustained deliverability goal of 450 to 500 million cubic feet per of carbon dioxide gas per day. He noted that the total number of wells would depend on the average production capacity of each well to achieve the deliverability goal.

In response to several questions, Mr. Peavy and Mr. Bryant indicated that most gathering lines and processing facilities would be in Arizona and interstate pipelines would be in New Mexico; stakeholders included anyone impacted by the project; hundreds of personnel were anticipated during construction and 25-30 permanent during production and 10-15 for pipeline with approximate salaries between \$40,000 to \$80,000 per year; horizontal wells were not anticipated at this time; and that facilities would be electric and air cooled so that water use would be relatively negligible.

#### CALL TO THE PUBLIC

Mr. Dixon described the Federal Energy Regulatory Commission's conference on gas storage in the southwest in Scottsdale on February 16, 2012. He reported that the conference focused on a need for storage in the southwest to prevent another shortage of available natural gas as happened in February 2011 when many people lost heat and power during an unusually cold weather event. Mr. Rauzi noted that the price for natural gas had recently fallen to less than \$2.00 per thousand cubic feet for the first time in a decade because of an abundance of available natural gas.

#### ANNOUNCEMENTS

The Commission scheduled its next meeting at 10:00 a.m. on July 20, 2012, in room 321 at the State Land Department Building in Phoenix.

#### ADJOURNMENT

Mr. Wagner moved, seconded by Mr. Thorwald:

THAT THE MEETING BE ADJOURNED

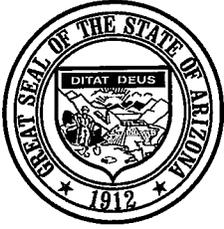
Motion carried unanimously. Time of adjournment was 11:00 a.m.

#### APPROVED

  
J. Dale Nations  
Chairman

#### GUESTS IN ATTENDANCE

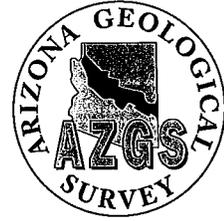
Mr. Coy Bryant	Kinder Morgan
Ms. Leslie Cooper	Assistant Attorney General
Mr. Joe Dixon	State Land Department
Mr. Dennis Hall	Montgomery & Associates
Mr. Paul Nunley	Kinder Morgan
Mr. Mark Peavy	Kinder Morgan
Ms. Michele Robertson	Montgomery & Associates
Mr. Thomas White	Kinder Morgan



Janice K. Brewer  
Governor

State of Arizona  
**Arizona Geological Survey**

416 W. Congress, Suite 100  
Tucson, Arizona 85701  
(520) 770-3500



M. Lee Allison, Ph.D., R.G.  
Director and State Geologist

July 12, 2012

To: Oil and Gas Conservation Commissioners

From: <sup>SLR</sup> Steven L. Rauzi, Oil and Gas Administrator

Re: Report about permits and drilling activity for the July 20, 2012, Meeting

Twenty two new drilling permits were issued and 15 wells were drilled since your last meeting on April 20, 2012. All but two permits and one drilled well were stratigraphic tests for potash. The two non-potash related permits were issued to Kinder Morgan for carbon dioxide tests at the St Johns Gas Unit.

Two companies have drilled 14 stratigraphic wells for potash since your last meeting. Passport Potash drilled six wells at its potash project west and southwest of Petrified Forest National Park near Holbrook. American West Potash drilled eight wells at its potash project east of Petrified Forest National Park. Companies drilling stratigraphic wells to test for potash are required to obtain a permit from the Oil and Gas Conservation Commission because the holes penetrate the Coconino Sandstone, which is a potential helium reservoir in the vicinity of the Petrified Forest National Park. Triomphe Energy LLC drilled its oil exploration well north of Holbrook to a total depth of 4,521 ft and is evaluating results at this time.

Statute provides for well records to be held confidential for one year after drilling is completed and grants the Commission authority to extend the confidential period for up to two years if the operator provides credible evidence that disclosure of the information is likely to cause harm to the operator's competitive position. HNZ Potash, American West Potash, and Passport Potash have submitted requests to extend the confidentiality of well records for two additional years. The well records contain competitively confidential information and all three companies have provided credible evidence that disclosure of the information is likely to cause harm to the operator's competitive position. I recommend approval of the requests.



**RYLEY CARLOCK**  
& A P P L E W H I T E  
*Attorneys*

A PROFESSIONAL CORPORATION  
One North Central Avenue, Suite 1200  
Phoenix, Arizona 85004  
P 602.258.7701 F 602.257.9582  
Offices in Arizona & Colorado  
[www.rcalaw.com](http://www.rcalaw.com)

*Michele Van Quathem*  
Direct Line: 602-440-4873  
Direct Fax: 602-257-6973  
E-mail: [MVQ@rcalaw.com](mailto:MVQ@rcalaw.com)

June 29, 2012

**By U.S. Mail and**  
**e-mail**

J. Dale Nations, Chairman  
Stephen R. Cooper  
Frank Thorwald  
Robert L. Wagner  
Maria Baier, Ex-Officio  
Arizona Oil and Gas Conservation Commission  
416 West Congress Street, Suite 100  
Tucson, Arizona 85701-1381  
[steve.rauzi@azgs.az.gov](mailto:steve.rauzi@azgs.az.gov)

**Re: Request for Confidential Treatment of Well Information per  
A.R.S. §27-522(B)**

Dear Chairman Nations and Commissioners,

This letter is sent to you on behalf of HNZ Potash, LLC ("HNZ"), to request that the Commission grant an extension of time to HNZ for confidential status of well logs, casing records, completion reports, and other well information submitted to the Commission by HNZ for two years (for a total of three years past completion of drilling) as indicated for each HNZ well in the spreadsheet enclosed with this letter.

Per Arizona Revised Statute section 27-522(B), the Commission is empowered to grant the requested extension "for not more than two years from the date of the request if the operator can provide credible evidence that disclosure of the information is likely to cause harm to the operator's competitive position." *See also* A.A.C. R12-7-121.

The drilling permits secured by HNZ that are identified in the attached spreadsheet were secured for the purpose of exploratory drilling for potash deposits and related resources in the Holbrook Basin. The Commission is already aware of the significant exploration drilling activity in the Holbrook Basin by primarily three parties as drilling permits reached record levels in 2011, as described on the Commission's website:

J. Dale Nations, Chairman  
Stephen R. Cooper  
Frank Thorwald  
Robert L Wagner  
Maria Baier, Ex-Officio  
Arizona Oil and Gas Conservation Commission  
June 29, 2012  
Page 2

**RYLEY CARLOCK**  
& APPLEWHITE  
*Attorneys*

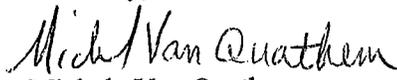
Seventy five drilling permits were issued, which set a record for the number of permits issued in a single year, 67 wells were drilled and one well was plugged in Arizona in 2011. All but two permits and all wells drilled were stratigraphic tests for potash east of Holbrook... Southwest Exploration/Passport Potash drilled 31 wells at its potash project west, southwest, and east of Petrified National Park near Holbrook. HNZ Potash drilled 24 stratigraphic wells southwest and east of Petrified Forest National Park. American West Potash drilled 12 wells at its potash project east of Petrified Forest National Park. The companies are required to permit the potash test wells with the Oil and Gas Conservation Commission because the holes penetrate the Coconino Sandstone, which is a potential helium reservoir in the area of the Petrified Forest National Park...

See <http://www.azogcc.az.gov/content/do-you-have-last-years-summary-oil-and-gas-activity>. The three major companies identified above are in competitive positions with each other as to their various independent holdings. Early release of well information may influence competitors' pursuit of nearby land holdings. In addition, all three companies are competing in Arizona against others globally. A copy of a February 17, 2012, Arizona Journal news article is enclosed in which State Geologist Lee Allison comments on the Holbrook Basin activity. As noted by Allison, parties in the Holbrook Basin are competing with the world as there are other potash mines in development elsewhere.

Early release of raw drilling data to the public by the Commission has the potential to unfairly impact HNZ's project in the early stages from local and international competition. HNZ respectfully requests the Commission grant HNZ an extension of time for confidentiality protection as authorized in A.R.S. § 27-522(B), and as indicated for each well in the enclosed spreadsheet.

If you need further information from HNZ regarding this request, please do not hesitate to contact me at (602) 440-4873.

Sincerely,

  
Michele Van Quathem

c: Steve Rauzi, Oil and Gas Administrator (via email)

Enclosures

**HNZ Potash, LLC**  
**Request for Extension of Confidentiality Period for Well Information**

Permit Number	Township Range	Well Location	Completion Date	Requested Ext Date
1006	17N-24E-S34	2631' FNL, 2517' FWL	8/7/2011	8/7/2013
1007	16N-25E-S7	2354' FNL, 2300' FEL	8/18/2011	8/18/2013
1009	16N-24E-S11	1783' FNL, 1258' FEL	7/4/2011	7/4/2013
1011	15N-23E-S15	2586' FNL, 2534 FEL	3/29/2011	3/29/2013
1012	15N-23E-S17	2530' FNL, 1238' FEL	3/29/2011	3/29/2013
1013	15N-22E-S11	1002' FNL, 2661' FEL	3/21/2011	3/21/2013
1014	16N-22E-S33	518' FSL, 1739' FEL	4/28/2011	4/28/2013
1015	16N-22E-S35	1338' FNL, 1332' FWL	4/7/2011	4/7/2013
1016	16N-22E-S23	2118' FSL, 194' FEL	4/18/2011	4/18/2013
1017	16N-24E-S21	877' FSL, 1164' FWL	6/4/2011	6/4/2013
1018	15N-24E-S8	313' FNL, 1897' FEL	5/3/2011	5/3/2013
1031	15N-23E-S5	2780' FSL, 823' FEL	5/23/2011	5/23/2013
1047	16N-22E-S13	1008' FNL, 2747' FEL	5/23/2011	5/23/2013
1048	16N-22E-S22	1684' FNL, 2516' FEL	6/9/2011	6/9/2013
1051	16N-25E-S19	2104' FNL, 2152' FWL	6/10/2011	6/10/2013
1063	16N-25E-S18	146' FSL, 1727' FWL	7/11/2011	7/11/2013
1064	16N-24E-S23	395' FNL, 2063' FWL	7/31/2011	7/31/2013
1065	16N-24E-S27	2372' FNL, 594' FWL	8/26/2011	8/26/2013
1066	16N-24E-S15	2608' FNL, 1800' FEL	8/18/2011	8/18/2013
1070	15N-24E-S2	2641' FNL, 1515' FWL	9/4/2011	9/4/2013
1076	15N-24E-S15	2610' FSL, 2496' FEL	9/12/2011	9/12/2013
1078	15N-24E-S17	1800' FSL, 394' FWL	9/29/2011	9/29/2013
1079	15N-22E-S26	344' FNL, 566' FWL	10/4/2011	10/4/2013
1080	15N-23E-S19	2683' FSL, 2077' FEL	9/27/2011	9/27/2013

# Arizona Journal

The Tribune-News • Silver Creek Herald • Your news, your paper, your website. Serving central Navajo County.

NEWS SPORTS OBITUARIES CLASSIFIEDS EVENT CALENDAR LOOKING BACK WEATHER CONTACT US

Search

Underway To  
Lost Past  
Alcohol In Twin Wells

Is Transformed  
Visitor Center  
atures Display

A Decade Makes A  
art III  
Theater Presents  
ors'  
Hancock Log Cabin  
rs This Holiday

onors The Capps  
ncertain For White  
on  
Approves Contract  
e Energy Savings  
ard For Continual

Celebration Stated  
aylor  
OKs Tentative

am Suspended  
eets Saturday  
vements Planned

aces Scheduled

July 5

Feb  
17  
2012

## State Geologist Says Holbrook Potash Could Be Significant Globally And Benign Environmentally

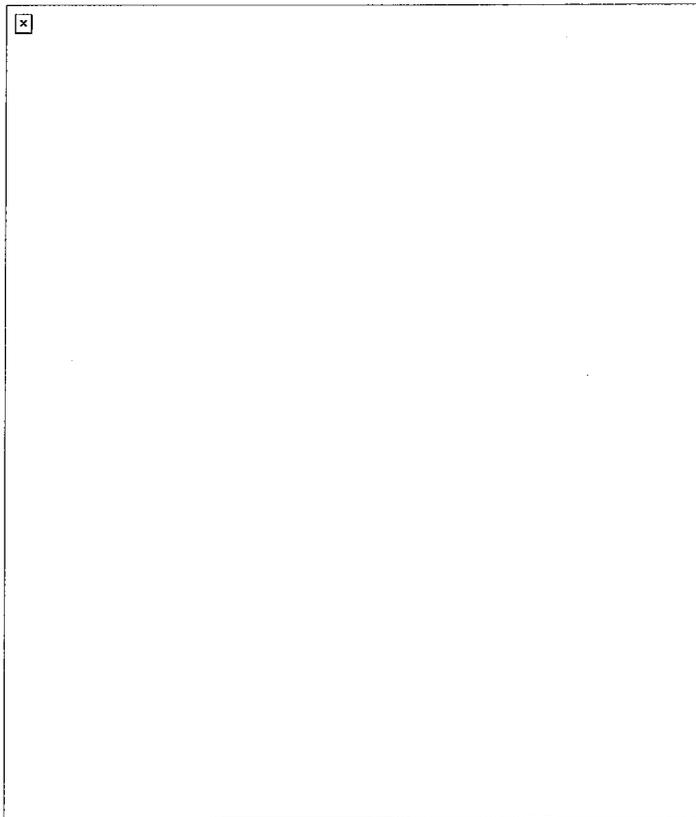


Image courtesy of the Arizona Geological Survey The Holbrook Basin in Arizona has the shallowest known potash deposits in the United States.

By Teri Walker –

State Geologist Lee Allison says the deposit of potash in the Holbrook Basin, east of the city of Holbrook, could be a significant player in the global potash market, and there don't have to be major environmental impacts.

"The sense is the Holbrook deposit could be very competitive in the global market," said Allison, who is with the Arizona Geological Survey (AZGS) in Tucson. "With a relatively high grade of potash available at shallow depths, with uniform layers that aren't busted up with faults, it could be less costly to mine this potash than deposits in other places.

Holbrook  
94°F  
AccuWeather.com  
Weather Forecast

Out of work?  
Need to update  
your resume?



Holbrook  
Public Library  
(928) 524-3732  
holbrookhub@gmail.com

CLICK



"With the existing railroad and highway infrastructure near the basin, everything is coming together to make Holbrook look very attractive on the global market," Allison said.

The mission of the Arizona Geological Survey is to serve as a primary source of information for the public regarding the state's geologic and mineral resources, and to advise and assist the public in the development and use of the mineral resources in Arizona.

The agency is expected to also "provide technical advice and assistance...to industry toward the wise development and use of the mineral and land resources of the state."

With these mandates in mind, Allison and his colleagues have been watching with interest as the Holbrook Basin has been explored for potential potash mining for the past few years by three mining companies: Vancouver and Apache Junction-based Passport Potash Inc., the first recent explorers in the basin; American West Potash, based in Denver, Colo.; and HNZ Potash, a subsidiary of Hunt Oil in partnership with NZ Legacy, an Arizona-based company.

Predating Passport initiating exploration of the Holbrook Basin in 2009, AZGS had been conducting research of its own to ferret out the implications and influencing factors related to potential mine development in the region.

"In 2008, we saw global markets exploding for potash and also saw we had a huge deposit in the Holbrook Basin that was garnering intense interest, so I asked Steve Rauzi (AZGS Oil and Gas administrator) to go back to previous exploration of the basin to see what we really had there," said Allison.

What Rauzi concluded, based on historic exploration data, is that the Holbrook Basin holds 682 million to 2.58 billion tons of potash, ranging in grade from six percent to 20 percent, at an average depth of 1,200 feet.

Rauzi's report release nearly coincided with the timing of Passport's decision to explore mining potential in the region.

Given the ease in extraction that could be achieved in the Holbrook Basin, along with the hundreds of millions of dollars that companies won't have to invest to build transportation infrastructure—rail and roads—miners could expect to have a globally competitive mine, Allison said.

Providing, that is, someone gets going, and gets to the market soon.

"There are a dozen or so potash mines in the planning stages right now, and the world market could not absorb that much supply," said Allison. "The next three or four mines to come on line could fill up enough of the market demand."

The key to a Holbrook Basin mine being a success—and attractive to investors—will be whether one of the companies can get built and start producing before mines in other places get rolling.

He said exploration and development activities are happening in other areas of the world, and in the U.S. in New Mexico, North Dakota and Utah; however, the earliest mine opening date he's heard of for any of the potential operations is 2016, with most not anticipating being ready for production for at least seven to 10 years.

While the Holbrook Basin's competitive factors look good, investors need to feel assured there will be a demand for the supply they put their money behind.

One of the Holbrook Basin explorers, American West Potash, has released a project timeline with a 2014 opening date.

"It seems like a very optimistic timeframe," said Allison. "But, if American West can open in



**July 6-7, 2012**

- \* Bucket of Blood Re-enactors
- \* Native Dancers
- \* Gunslinger Car Show
- \* BBQ Cook-off
- \* Bull Riding Competition
- \* Mexican Dancers
- \* Haunted Tours & Melodramas
- \* Kids' Games



**Click here for Weekly Specials!**



We're Clean!  
We're Quiet!

**OK RV Park**  
(928) 524-3226  
www.OKRVPK-LLC.com  
1576 Roadrunner Road  
Holbrook, AZ 86025



**ROXY THEATER**  
Movies & Showtimes



**Petrified Wood Co.**  
Petrified Wood  
Fossils & Minerals

**Click for a FREE POUND of Petrified Wood**

Junction Hwy. 180 & 777  
25.5 Holbrook, AZ 86025

**SUMMER CLEARANCE**  
BUY 1 FOR \$0.99 GET 1 FREE

ALCATEL | SAMSUNG  
Blaze | Galaxy V

**CLICK HERE FOR DETAILS**

**CELLULARONE**  
Certain restrictions apply. See store for details.



**T-Mobile**  
No Contracts. No Bills.

**\$55** Samsung Highlight  
\$55.00

POWERED BY **CELLULARONE**  
Certain restrictions apply. See store for details.

Powered by Max Banner

Ads

2015 or 2016, before some of these other mines come on line, it can lock up a market."

The U.S. has a demand of 10 million tons of potash per year, for which it relies heavily on imports.

U.S. potash mines supply only 1.5 million tons to domestic markets, and command \$700 per ton, which is above the world average, which has fluctuated recently between \$350 to \$500 per ton.

The price difference comes down to the lower costs of getting the mineral out of the ground in U.S. mines, Allison explained.

"In Canada, potash can be purchased cheaper, but by the time you add on shipping and export costs, even at \$700 per ton, the U.S. potash is cheaper," said Allison.

If the cost-per-ton holds in the U.S. as new mines come on board, that would mean higher than anticipated returns for an operation like American West, which issued a preliminary economic analysis anticipating annual revenue based on potash values of \$450 per ton.

While timing will be an issue influencing financial backing for mine development, all indications are that maneuvering through environmental concerns may not be as arduous as what's encountered in most mining operations.

Risks identified for potash mining typically include groundwater contamination, water usage and subsidence (or cave ins).

Allison has been somewhat surprised at how quiet things have been on the environmental impact front.

"When you have the superintendent of Petrified Forest National Park talking about a 'win-win,' it sends a very strong message," said Allison.

He's referencing a recent presentation by Petrified Forest Superintendent Brad Traver at a watershed conference in Show Low, during which Allison said Traver reiterated his impression that, done the way he understands at least American West's plans to mine, he essentially believes the environmental concerns are covered.

American West Potash has been working with Petrified Forest officials on mine development plans for the past year. The company's plans to have an underground mine with a small surface footprint that won't be visible to park visitors, and to employ industry-accepted safeguards to keep salt from seeping into groundwater supplies and to reduce the use of fresh water, has Traver feeling comfortable with the company's potential operations.

"Do I wish the mines were 20 miles from the park, instead? Yes. But if they're going to be here, I feel like my biggest concerns are being addressed," said Traver in a previous interview.

Allison said Traver's assessment is a significant one, and the fact that the National Parks Conservation Agency, defender of national parks' interests, hasn't weighed in, is also telling.

Allison says his agency shares the common concerns related to potash mining, but like Traver, there aren't any risks that he's feeling can't be effectively addressed.

While working in Kansas, Allison said he was familiar with salt mines there and found the environmental impacts can be minimal.

"If there is subsidence, it's likely going to be minor, and it's likely not going to have significance or even an observable impact on the surface," he said.

He said the one environmental concern he has heard was expressed by Kathy Hemenway of the Snowflake area, and related to "hydrofracking" contaminating the area's groundwater.

"I was blown away," said Allison. "I've never heard anyone suggest a concern about fracking related to potash mining here."

Hydrofracking, or hydraulic fracturing, is when the injection of pressurized fluid is used to cause fracturing in a rock layer. The practice is sometimes used in natural gas, petroleum and coal seam gas operations to create new channels in rock that can increase the amount of fossil fuels recovered from a site.

Allison says, "There's been kind of a national hysteria about fracking in the last few years," while pointing out there are no fracking operations occurring anywhere in Arizona.

Hydrofracking would only be an eventuality should one of the potash mining operations decide to use solution rather than underground mining methods and employ fracking as part of that mining method. American West has said it would use conventional underground methods, but Passport Potash has not yet indicated which method it would use. HNZ Potash has not shared any details about its development plans.

The concern expressed by Hemenway, Allison explained, is that if fracking is employed, saltwater could escape the deposit and contaminate the surrounding groundwater, a situation that Allison said is not likely.

Even if one of the companies decides to use solution mining, Allison said it doesn't have to be a source of panic for area residents.

For one thing, fracking does not have to be used in solution mining. There are solution mining methods that typically don't involve fracturing rock layers. First, there have to be mechanically rigid layers "interbedded" with the salts and potash to even make fracking technically feasible. The salt and potash are more plastic in composition, and flow rather than fracture.

Second, even if a company decided to use hydraulic fracturing as an enhancement to a possible solution mine, they would use water as the hydraulic fluid, not the chemicals used in the petroleum industry, Allison says.

"The potash companies would not want to contaminate potash that would be used as fertilizer on crops," said Allison. "Farmers would not buy it."

As far as injecting water into the ground to extract the potash, Allison says there are ways to do it without the water leaking into surrounding areas. The mining industry has standard methods they use to keep the injected solutions or materials contained to defined areas.

"If people are really concerned, I can point them to an example that's been going on for the last 40 years in the Holbrook area," said Allison. "Most people aren't even aware of the fact that they've been storing LPG (liquefied petroleum gas) in salt caverns outside of Holbrook all these years."

He explained that the LPG storage facility near Holbrook, which is now operated by Enterprise Products Partners of Houston, is inspected twice a year for safety.

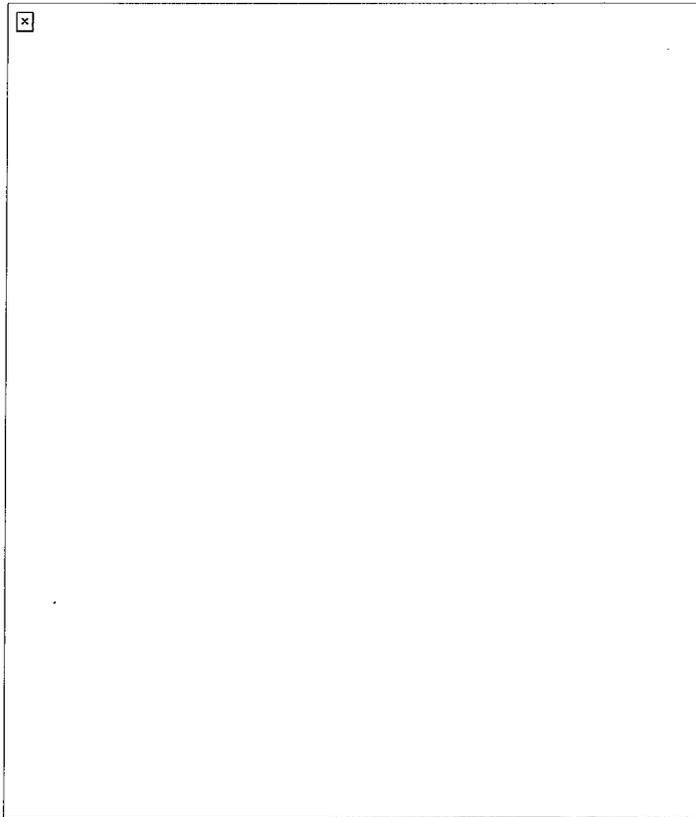
"You've had the same operation in the same environment for 40 years without any problems," said Allison.

If one of the mining companies in the Holbrook Basin should decide to use the solution mining method, Allison said, "You'd employ the same technology and safeguards. You shouldn't have the issue of salt water leaking into groundwater supply," because there are industry-standard safeguards in place to prevent leakage.

"I think potash mining appears to be very benign and I think the worst thing to worry about would be some surface subsidence," he said, reiterating that even should it occur, it wouldn't likely be at a scale that would be of concern.

As Allison has evaluated the potential for potash mining in the Holbrook Basin, he said the biggest surprise he's experienced is how uninformed people around the state are about the topic.

"It's been fascinating as we give talks around the state to all kinds of places like the commerce committee, where we talked about the potential economic impacts. People are surprised. No one knows about this. No one knows what potash is," said Allison. "I keep hearing, 'We had no idea' and 'I just never thought you'd build an underground mine to mine fertilizer.'"



*Image courtesy of the Arizona Geological Survey According to the Arizona Geological Survey, the thickest potash beds in the Holbrook Basin are found under and adjacent to the Petrified Forest National Park.*

**Subject:** American West Potash Request for Confidentiality  
**From:** Patrick Avery <PAvery@ProspectGRI.com>  
**Date:** 7/1/2012 4:45 PM  
**To:** "Steve Rauzi (steve.rauzi@azgs.az.gov)" <steve.rauzi@azgs.az.gov>  
**CC:** Jonathan Bloomfield <JBloomfield@ProspectGRI.com>, "cstephens@bhfs.com" <cstephens@bhfs.com>

Steve, I hope you are well. Over the last few months, I have sent you our 2012 drilling information and have appreciated your questions and insights.

Our 2012 Spring Drilling Season is now done. As we have discussed, and all the required reports have been filed. We also conducted a 2011 seismic and drilling program. This ran from February 2011 to September 2011.

The Holbrook remains a basin of interest to several companies. We understand that the Arizona Geological Survey and Division of Oil and Gas regulations provide Confidentiality for an operator for up to 3 years. Because we think our 2011 and 2012 Drilling programs contain competitively confidential information, we would request that the one year confidentiality for 2011 and 2012 drilling programs be extended by 2 years. Thank you are your ongoing support and regulatory direction. Please let me know if you have any questions.

Pat Avery  
1621 18th Street, Suite 260  
Denver, CO 80202  
(o) 303 990-8401 (please note new number)  
(c) 720- 413-4520  
[Description: Description: C:\Users\pavery\AppData\Local\Microsoft\Windows  
\Temporary Internet Files\Content.Outlook\XGKU9TE0\PGR600dpi (8).png]

---

— Attachments: —

image003.png

16777216  
bytes

**American West Potash**  
**Request for extension of confidentiality period for well information**

<b>OPERATOR</b>	<b>PERMIT</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>COMPLETION DATE</b>
American West Potash	1039	06	17N	26E	2011/04
American West Potash	1043	16	18N	26E	2011/04
American West Potash	1033	29	17N	25E	2011/05
American West Potash	1034	32	17N	25E	2011/05
American West Potash	1035	34	17N	25E	2011/06
American West Potash	1036	30	17N	26E	2011/06
American West Potash	1037	18	17N	26E	2011/07
American West Potash	1038	16	17N	26E	2011/07
American West Potash	1040	04	17N	26E	2011/07
American West Potash	1041	28	18N	26E	2011/07
American West Potash	1042	26	18N	26E	2011/08
American West Potash	1044	14	18N	26E	2011/09
American West Potash	1045	02	18N	26E	2011/09
American West Potash	1046	26	19N	26E	2011/09
American West Potash	1085	21	17N	25E	2012/03
American West Potash	1086	09	17N	25E	2012/03
American West Potash	1087	03	17N	25E	2012/04
American West Potash	1093	05	17N	26E	2012/04
American West Potash	1088	36	18N	25E	2012/05
American West Potash	1090	13	17N	25E	2012/05
American West Potash	1091	15	17N	26E	2012/05
American West Potash	1094	06	17N	26E	2012/05
American West Potash	1089	33	19N	26E	2012/06
American West Potash	1092	34	18N	26E	2012/06

Passport Potash, Inc.  
33346 W. Guadalupe Rd.  
Apache Junction, AZ 85120

July 2, 2012

Steve Rauzi  
Oil and Gas Program Administrator  
Arizona Geological Survey  
416 W. Congress, #100  
Tucson, AZ 85701-1315

hcd 7-3-12

Re: Confidentiality of Records

Dear Mr. Rauzi,

As you are aware, Passport Potash, Inc. is conducting a potash exploration drill program in the Holbrook Basin. Passport has submitted reports and records to the Arizona Oil and Gas Conservation Commission as required by regulation. Because Passport's drill program is ongoing, and due to the competitive nature of exploration in the Holbrook Basin, we request an extension of confidentiality for the records that Passport has submitted to the Arizona Oil and Gas Commission for an additional 2 years.

Thank you for your consideration.

Best Regards,



Roy Fuller  
Counsel, Passport Potash, Inc.

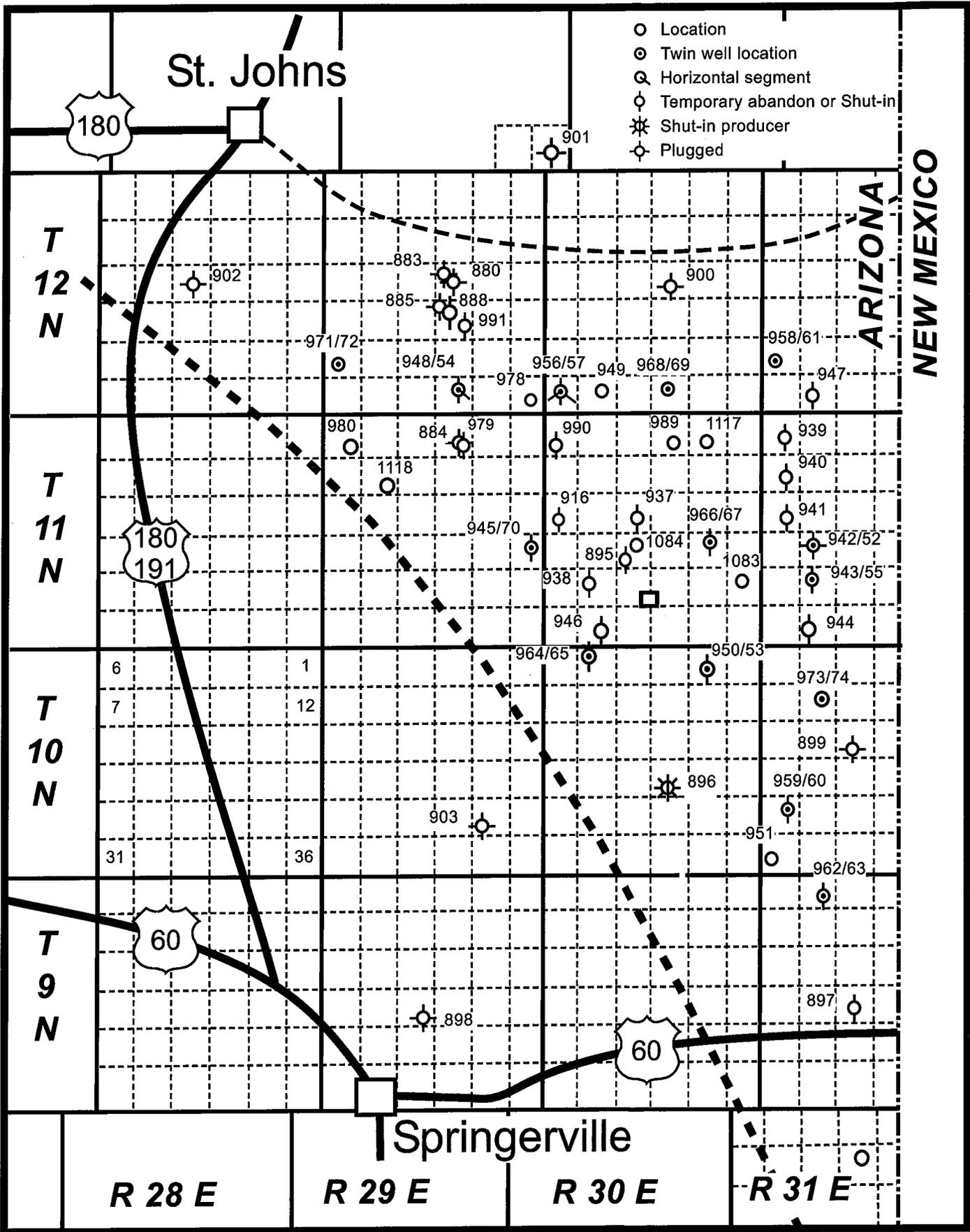
**Southwest Exploration/Passport Potash  
Request for extension of confidentiality for well information**

<b>OPERATOR</b>	<b>PERMIT</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>COMPLETION DATE</b>
Potash Green	987	12	17N	25E	2010/06
Potash Green	988	20	17N	25E	2010/06
Southwest Exp	985	34	16N	23E	2009/06
Southwest Exp	983	18	16N	23E	2009/07
Southwest Exp	984	26	16N	23E	2009/07
Southwest Exp	986	36	16N	23E	2009/07
Southwest Exp	995	21	17N	23E	2011/02
Southwest Exp	997	24	17N	23E	2011/03
Southwest Exp	998	25	17N	23E	2011/03
Southwest Exp	999	26	17N	23E	2011/03
Southwest Exp	993	13	17N	23E	2011/04
Southwest Exp	996	22	17N	23E	2012/03
Southwest Exp	994	14	17N	23E	2012/05
Southwest/Passport	1030	25	17N	23E	2011/02
Southwest/Passport	1027	09	17N	23E	2011/04
Southwest/Passport	1028	11	17N	23E	2011/04
Southwest/Passport	1029	01	17N	23E	2011/04
Southwest/Passport	1049	24	17N	23E	2011/05
Southwest/Passport	1050	25	17N	23E	2011/05
Southwest/Passport	1020	16	16N	23E	2011/06
Southwest/Passport	1021	20	16N	23E	2011/06
Southwest/Passport	1023	24	16N	23E	2011/06
Southwest/Passport	1025	20	16N	24E	2011/06
Southwest/Passport	1026	30	16N	24E	2011/06
Southwest/Passport	1053	32	16N	23E	2011/06
Southwest/Passport	1022	22	16N	23E	2011/07
Southwest/Passport	1024	28	16N	23E	2011/07
Southwest/Passport	1019	14	16N	23E	2011/08
Southwest/Passport	1052	30	16N	23E	2011/08
Southwest/Passport	1074	17	17N	23E	2011/08
Southwest/Passport	1058	18	17N	25E	2011/09
Southwest/Passport	1071	03	17N	23E	2011/09
Southwest/Passport	1055	10	17N	25E	2011/10
Southwest/Passport	1057	16	17N	25E	2011/10
Southwest/Passport	1061	04	17N	25E	2011/10
Southwest/Passport	1062	08	17N	25E	2011/10
Southwest/Passport	1060	24	17N	25E	2011/11
Southwest/Passport	1054	02	17N	25E	2011/12
Southwest/Passport	1056	14	17N	25E	2011/12
Southwest/Passport	1059	22	17N	25E	2012/01
Southwest/Passport	1072	05	17N	23E	2012/03
Southwest/Passport	1073	15	17N	23E	2012/03
Southwest/Passport	1100	25	18N	23E	2012/05
Southwest/Passport	1096	23	17N	23E	2012/06
Southwest/Passport	1097	19	17N	23E	2012/06
Southwest/Passport	1099	29	17N	23E	2012/06
Southwest/Passport	1105	07	16N	23E	2012/06

## Location and status of Kinder Morgan wells in east-central Arizona

Permit	Well	Location Sec-Twp-Rge	Total Depth	Status and comment
880	1 Plateau Cattle	ne sw 15-12n-29e	2431 ft	Drilled 8/1994, plugged 9/1997
883	1A Plateau Cattle	ne sw 15-12n-29e	220 ft	Drilled 11/1994, plugged 11/1997
884	3-1 State	ne se 3-11n-29e	1813 ft	Drilled 10/1995, plugged 9/2004
885	22-1 State	nw nw 22-12n-29e	218 ft	Drilled 8/1995, plugged 8/1997
888	22-1X State	se nw 22-12n-29e	2149 ft	Drilled 6/1997, shut-in 6/1997
890	35-1 State	ne sw 35-12n-29e	not drilled	Permit expired 4/1997
891	10-1 State	sw ne 10-11n-29e	not drilled	Permit expired 4/1997
892	11-1 State	se nw 11-11n-29e	not drilled	Permit expired 4/1997
893	2-1 State	se nw 2-11n-29e	not drilled	Permit expired 4/1997
895	11-21 State	ne sw 21-11n-30e	2410 ft	Drilled 3/1997, shut-in / app to plug
896	10-22 State	sw sw 22-10n-30e	2265 ft	Drilled 7/2002; completed, shut-in 3/2004
897	9-21 State	sw ne 21-9n-31e	2686 ft	Drilled 3/1997, shut-in / app to plug
898	9-22-29 State	sw se 22-9n-29e	3180 ft	Drilled 4/1997, plugged 2/2004
899	10-16-31 State	ne sw 16-10n-31e	2728 ft	Drilled 5/1997, plugged 2/2004
900	12-15-30 State	ne sw 15-12n-30e	2603 ft	Drilled 5/1997, plugged 7/2008
901	13-36-29 State	sw ne 36-13n-29e	2454 ft	Drilled 5/1997, plugged 5/1997
902	12-16-28 State	nw ne 16-12n-28e	2280 ft	Drilled 5/1997, plugged 1/2005
903	10-26-29 State	nw sw 26-10n-29e	3200 ft	Drilled 5/1997, plugged 1/2000
904	15-28-29 State	ne nw 28-15n-29e	2410 ft	Drilled 6/1997, plugged 6/1997
915	11-33 State	ne sw 33-11n-30e	not drilled	Permit expired 10/2004
916	11-18 State	c sw 18-11n-30e	2535 ft	Drilled 5/2004, temporarily abandoned
917	10-13 State	ne sw 13-10n-30e	not drilled	Permit expired 10/2004
937	11-16-30 State	nw se 16-11n-30e	2377 ft	Drilled 3/2007, shut-in
938	11-29-30 State	se nw 29-11n-30e	1906 ft	Drilled 2/2007, shut-in
939	11-06-31 State	nw se 06-11n-31e	2711 ft	Drilled 4/2007, shut-in
940	11-07-31 State	nw se 07-11n-31e	1885 ft	Drilled 4/2007, temporarily abandoned
941	11-18-31 State	nw se 18-11n-31e	2035 ft	Drilled 4/2007, temporarily abandoned
942	11-20-31 State	se nw 20-11n-31e	1934 ft	Drilled 5/2007, plugged 2/2008
943	11-29-31 State	se nw 29-11n-31e	2850 ft	Drilled 5/2007, shut-in
944	11-32-31 State	ne sw 32-11n-31e	2900 ft	Drilled 5/2007, temporarily abandoned
945	11-24-29 State	sw ne 24-11n-29e	1906 ft	Drilled 2/2007, shut-in
946	11-32-30 State	c se 32-11n-30e	1690 ft	Drilled 3/2007, temporarily abandoned
947	12-32-31 State	ne sw 32-12n-31e	85 ft	Drilled 5/2007, temporarily abandoned
948	12-34-29 State	nw ne 34-12n-29e	1140 ft	Drilled 2/2008, plugged 2/2008, blow out
949	12-32-30 State	sw ne 32-12n-30e	not drilled	Permit expired 7/2008
950	10-02-30 State	sw ne 02-10n-30e	2650 ft	Drilled 2/2008, temporarily abandoned
951	10-31-31 State	nw sw 31-10n-31e	not drilled	Permit expired 9/2008
952	11-20-31x State	se nw 20-11n-31e	not drilled	Permit expired 7/2008
953	10-02-30x State	sw ne 02-10n-30e	1899 ft	Drilled 2/2008, temporarily abandoned
954	12-34-29x State	nw ne 34-12n-29e	3048 ft	Drilled 2/2008, shut-in
955	11-29-31x State	se nw 29-11n-31e	1909 ft	Drilled 3/2008, temporarily abandoned
956	12-31-30 State	se nw 31-12n-30e	4202 ft	Drilled 3/2008, temporarily abandoned
957	12-31-30x State	se nw 31-12n-30e	2622 ft	Drilled 3/2008, temporarily abandoned
958	12-30-31 State	sw sw 30-12n-31e	not drilled	Permit expired 8/2008
959	10-29-31 State	sw ne 29-10n-31e	2869 ft	Drilled 3/2008, temporarily abandoned
960	10-29-31x State	sw ne 29-10n-31e	not drilled	Permit expired 8/2008
961	12-30-31x State	sw sw 30-12n-31e	not drilled	Permit expired 9/2008
962	09-05-31 State	nw se 05-09n-31e	122 ft	Drilled 4/2008, temporarily abandoned
963	09-05-31x State	nw se 05-09n-31e	2969 ft	Drilled 4/2008, temporarily abandoned
964	10-05-30 State	nw nw 05-10n-30e	2600 ft	Drilled 3/2008, temporarily abandoned
965	10-05-30x State	nw nw 05-10n-30e	not drilled	Permit expired 9/2008
966	11-23-30 State	nw ne 23-11n-30e	2550 ft	Drilled 4/2008, shut-in
967	11-23-30x State	nw ne 23-11n-30e	not drilled	Permit expired 9/2008
968	12-34-30 State	se nw 34-12n-30e	not drilled	Permit expired 12/2008
969	12-34-30x State	se nw 34-12n-30e	not drilled	Permit expired 12/2008
970	11-24-29x State	sw ne 24-11n-29e	2137 ft	Drilled 4/2008, temporarily abandoned
971	12-30-29 State	ne sw 30-12n-29e	not drilled	Permit expired 1/2012
972	12-30-29x State	ne sw 30-12n-29e	not drilled	Permit expired 1/10/2009
973	10-08-31 State	sw ne 08-10n-31e	not drilled	Permit expired 2/14/2009
974	10-08-31x State	sw ne 08-10n-31e	not drilled	Permit expired 2/14/2009
978	12-36-29 State	nw sw 36-12n-29e	not drilled	Permit expired 8/13/2009
979	11-03-29x State	ne se 03-11n-29e	1670 ft	Drilled 11/2010, temporarily abandoned
980	11-06-29 State	se se 06-11n-29e	not drilled	Permit expired 2/13/2011
989	11-03-30 Fee	n2 se 03-11n-30e	not drilled	Permit extended through 12/2012
990	11-06-30 State	ne sw 06-11n-30e	1788 ft	Drilled 11/2010, temporarily abandoned
991	12-22-29 State	ne se 22-12n-29e	1690 ft	Drilled 11/2010, temporarily abandoned
1083	11-25-30 Prize	se nw 25-11n-30e	not drilled	Permitted 10/31/2011
1084	11-21-30 State	sw ne 21-11n-30e	not drilled	Permitted 11/28/2011
1117	11-02-30 State	ne sw 02-11n-30e	not drilled	Permitted 6/25/2012
1118	11-08-29 State	se se 08-11n-29e	not drilled	Permitted 6/25/2012

# Kinder Morgan CO2 Company Wells



06/25/12



**Cash Securities Held by Arizona Geological Survey in Agency Fund**

Date	Effective date	Operator	Org. Amount	Forfeited Bond	Amount	Comments
5/21/1973		American Fuels	\$ 25,000.00		25,000.00	There remains an unplugged well and no evidence that the bond was ever cancelled, in 1991 oil and gas was transferred to azgs and we have no record as to whether these funds were transferred
8/1991		United Gas	\$ 5,000.00	\$ 4,395.28	604.72	
1/1994		Contender	\$ 5,000.00	\$ 5,000.00	5,000.00	
6/15/1995		Arzon Corp	\$ 10,000.00		10,000.00	GAO cannot provide any additional information on this bond. There are no records available.
4/17/2002		Aquila	\$ 10,000.00		10,000.00	GAO cannot provide any additional information on this bond. There are no records available.
3/20/2009	3/31/2009	Wilcox Oil & Gas Bond	\$ 10,000.00		10,000.00	Producing well
5/5/2009	5/11/2009	SW Exploration	\$ 25,000.00		25,000.00	Monies are currently on Oil and Gas Bond Fund
1/28/2011	1/28/2011	SW Exploration	\$ 25,000.00		25,000.00	Monies are currently on Oil and Gas Bond Fund
4/19/2011	4/19/2011	American West Potash LLC	\$ 50,000.00		50,000.00	Monies are currently on Oil and Gas Bond Fund
3/23/2012		Triomphe Energy LLC	\$ 10,000.00		10,000.00	Monies are currently in Oil and Gas Bond Fund
<b>Total Amount in Agency Fund</b>			<b>\$ 175,000.00</b>	<b>\$ 9,395.28</b>	<b>\$ 170,604.72</b>	

**Securities Held by the State Treasurer**

Date	Operator	Bank	CD Number	Amount	Comments
7/7/1994	Ridgeway Arizona Oil	Bank One	4002111	\$ 10,000.00	
11/28/1994	Ridgeway Arizona Oil	Bank One	4002112	\$ 15,000.00	
11/1/2003	Holbrook Basin	Bank of America	91000053487715	\$ 10,000.00	
8/19/2004	Holbrook Energy	Bank of America	91000057645689	\$ 10,000.00	
9/20/2004	Holbrook Energy	Bank One	0100000927604	\$ 10,000.00	
5/23/2006	Ridgeway Arizona Oil	Bank of the West	631-852068	\$ 25,000.00	
<b>Total Amount Held by State Treasurer</b>				<b>\$ 80,000.00</b>	

**Surety Performance Bonds**

Operator	Bond Company	Bond Number	Remark	Amount	Comments
APS	Liberty Mutual Insurance	024-016-685	P/N 929	\$25,000.00	
Coleman Oil & Gas	(BIA Bond)		Ltr. Credit 564	None to State	
Elm Ridge Resources	(BIA Bond)	Bia B05973	EBB wells	None to State	
Enterprise Products	Liberty Mutual Insurance	022-018-498	P/N 778	\$50,000.00	
Gruy Petroleum	RLI Insurance Co.	RLB0007431	P/N 920	\$25,000.00	
HNZ Potash	Fidelity of Maryland	LPM08800239	P/N 1000	\$50,000.00	
Mountain States Petroleum	(BIA Bond)		DBK wells	None to State	
Plains LPG Services LP	RLI Insurance Co.	RLB0010111	Blanket	\$25,000.00	
Premco Western	(BLM Bond)		P/N 889	None to State	
Rim Southwest Corp	(BIA Bond)		P/N 882	None to State	
Kinder Morgan CO2 Co., L.P.	Liberty Mutual Insurance	022-036-714	Blanket	\$50,000.00	
<b>Total Amount Held in Surety Bonds Payable to State</b>				<b>\$225,000.00</b>	
<b>Total Amount Held in Agency Fund</b>				<b>\$ 80,000.00</b>	
<b>Total Amount Held by State Treasurer</b>				<b>\$ 170,604.72</b>	
<b>Total Amount Held in Surety Bonds Payable to State</b>				<b>\$225,000.00</b>	
<b>Total Active Surety + Non-Surety Bonds Held July 2012</b>				<b>\$ 475,604.72</b>	

[ABOUT US](#) | [WHAT WE DO](#) | [MEMBER STATES](#) | [ISSUES](#) | [NEWS](#) | [PUBLICATIONS](#) | [EVENTS](#)



[2012 Vancouver](#) | [2011 Marcellus Summit](#) | [2011 Buffalo](#) | [2011 Bismarck, ND](#) | [2010 Tucson](#) | [Lexington 2010](#) | [Biloxi 2009](#) | [Anchorage 2009](#) | [Santa Fe 2008](#) |

#### Presentations

**IOGCC Midyear Meeting**  
Vancouver, British Columbia  
June 3 - 5, 2012

##### General Session

» [Listen to Recorded Session \(MP3\)](#)

Denis Stevens, Consul General of Canada  
Alaska Gov. Sean Parnell, IOGCC Chairman  
Rich Coleman, British Columbia Minister of Energy & Mines

» [The Re-Piping of North America](#)

Paul Fisher, Vice President, Commercial, Enbridge Northern Gateway Pipelines

» [British Columbia Fracture Fluid Disclosure & Overview of FracFocus.ca](#)

Stuart Venables, Senior Petroleum Geologist, British Columbia Oil & Gas Commission

##### Energy Resources, Research & Technology Committee

» [Hydrology Modeling to Support Access to Water for Oil & Gas Operations in Northeast British Columbia](#)

Allan Chapman, Hydrologist, British Columbia Oil & Gas Commission

» [Recent U.S. EPA Actions Affecting Energy Supply](#)

Richard G. Stoll, Partner, Foley & Lardner

» [EOR CCS Incentives: Win for Environment, Economy, Security, Treasury](#)

Kurt Waltzer, Clean Air Task Force

» [Texas Clean Air Project](#)

Jeff Brown, Vice President, Summit Power Group LLC

##### Public Outreach Committee

» [Unconventional Gas Development: Successfully Connecting Research & Outreach](#)

Jim Ladlee, Associate Director, Marcellus Center for Outreach & Research

» [Attitudes Toward Development: Context & Opportunity](#)

Steven J. Simons, Beyond Action Strategy Consulting

##### Public Lands Committee

» [The Land Use Framework & Alberta Land Stewardship Act](#)

Jennifer Steber, Assistant Deputy Minister, Alberta Energy

» [BMPs on Public Lands: Protecting Water & Wildlife](#)

Matt Sura, Research Associate, Attorney, University of Colorado Law School, Natural Resources Law Center

##### Council of State Oil & Gas Attorneys

» [Regulation of Oil & Gas by the British Columbia Oil & Gas Commission](#)

Trevor Swan, Chief Counsel, British Oil & Gas Commission

» [Creation of Establishment of Interstate Oil and Gas Compact Commission in 1935](#)

Marvin Rogers, Counsel, Alabama State Oil & Gas Board

##### International Committee

» [Towards a Sustainable 21st Century: International Activities of the DOE Office of Fossil Energy](#)

Barbara McKee, Deputy Assistant Secretary, International Activities

» [Industry Perspectives on Hydraulic Fracturing](#)

Dave Pryce, Canadian Association of Petroleum Producers

» [A Screening-Level Assessment Tool for Classifying Hydraulic Fracturing Fluids](#)

Dr. Donald Davies, Senior Vice President and Principal, Intrinsic Environmental Sciences, Inc.

» [Responsible Products Program: Encana's Experience To Date](#)

Richard Dunn, Vice President, Regulatory & Government Relations, EnCana Corporation

##### Environmental & Safety Committee

» [The EFD Technology Integration Program: An Opportunity to Demonstrate Technologies that will Reduce Environmental Impacts](#)

Thomas E Williams, Senior Advisor, Environmentally Friendly Drilling Program

» [FracFocus: Year In Review](#)

Mike Paque, Executive Director, Ground Water Protection Council

» [Update: EPA and Pavillon, Wyoming Groundwater Study](#)

Thomas E Doll, Oil & Gas Supervisor, Wyoming Oil & Gas Conservation Commission

##### Legal & Regulatory Committee

» [Community Leadership Choice Beyond the Regulatory Push](#)

Bill Streeper, Mayor, Northern Rockies Regional Municipality

» [Local and Aboriginal Business Platform](#)

Brad Caldwell, Founder, Audit Tree, Inc.

[HOME](#) | [SITE MAP](#) | [SEARCH](#) | [LINKS](#) | [CONTACT US](#)

radium3

OGCC MTS

7-20-12

Name

Representing

Thom White

Kindor Mayrow

Joe Dixon

AZ State Land Dept.

MICHELE VANQUATHEN

RILEY CARLOCK