

ENERGEN RESOURCES

Pertinent Data Sheet

Date: 6/5/2009 **Well Name:** Tiffany SWD #1 **API#:** 30-045-32208 **DP#:** 20449A
Unit: H **Sec:** 10 **Twp:** 32N **Rge:** 6W **Footage:** 725' FNL 325' FEL
County: San Juan **State:** NM **Spud:** 10/23/04 **Completed:** 01/07/05
Field: Entrada-Chinle **Elev:** 6194' **TD:** 9216' **PBTD:** 9157' **KB:** 15'
Perfs: 8450'-8565', 3-1/8" guns, 4 spf, 0.34" dia, total shots: 460

Frac: Acid breakdown w/ 6000 gals of 15% acid & 690 bio balls.

Hole Size	Casing Size	Weight & Grade	Depth Set	Cement	TOC
	13 3/8"	48# H-40	626'	800 sx	Surface
	9 5/8"	40# P-110 & N-80	DV @ 3235'	600 sx	Surface
			DV @ 5329'	1025 sx	Circ
			5697'	140 sx	Circ
	5 1/2"	17# N-80	5477'-9204'	755 sx	Circ
Tubing Size	# Joints	Weight & Grade	Depth Set	Seat Nipple	Packer
3 1/2"	101	9.3# IPC EUE N-80	5272'		
3 1/2"	164	9.3# IPC S.C. coupling	8378'		

Rod & Pump Record:

Rod Size	# Rods	Length	Grade
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Log Record: GR-CCL-SBT

Formation Tops:

Ojo Alamo	1800'	Point Lookout	5360'
Kirtland	2167'	Mancos	5940'
Fruitland	2167'	Gallup	6690'
Pictured Cliffs	2807'	Graneros	7490'
Lewis	3125'	Dakota	7665'
Cliffhouse	4844'	Bluff	8355'
Menefee	5218'	Chinle	8925'

Work History:

SWD order attached



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Joanna Prukop
Cabinet Secretary
Acting Director
Oil Conservation Division

ADMINISTRATIVE ORDER SWD-922

***APPLICATION OF ENERGEN RESOURCES CORPORATION FOR PRODUCED
WATER DISPOSAL, SAN JUAN COUNTY, NEW MEXICO.***

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), Energen Resources Corporation made application to the New Mexico Oil Conservation Division on April 26, 2004, for permission to complete for produced water disposal its Tiffany SWD Well No. 1 (API No. 30-045-32208) to be located 725 feet from the North line and 325 feet from the East line of Section 10, Township 32 North, Range 6 West, NMPM, San Juan County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

The applicant is hereby authorized to complete its Tiffany SWD Well No. 1 (API No. 30-045-32208) to be located 725 feet from the North line and 325 feet from the East line of Section 10, Township 32 North, Range 6 West, NMPM, San Juan County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Bluff and Entrada formations from approximately 8,415 feet to 8,915 feet through 3-1/2 inch plastic-lined tubing set in a packer located at approximately 8,380 feet.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

As per form C-108 Section XI, the operator shall attempt to obtain and analyze a fresh water sample within one mile of the proposed injection well, then supply this analysis to the Division. After perforating the injection interval, the operator shall attempt to obtain a water sample from this injection interval and, if successful, supply the analyzed results to the Division. After completion, the operator shall estimate the reservoir pressure of the injection interval and supply this to the Division.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well **to no more than 1,683 psi.**

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Aztec district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Aztec district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall provide written notice of the date of commencement of injection to the Aztec district office of the Division. The operator shall submit monthly reports of the

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Energen Resources Corporation
May 13, 2004
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disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 13th day of May 2004.



JOANNA PRUKOP,
Interim Director

JP/wvjj

cc: Oil Conservation Division – Aztec
Permits West – Brian Wood