

Jones, William V., EMNRD

From: Slack, Ronnie [Ronnie.Slack@dvn.com]
Sent: Friday, October 22, 2010 1:44 PM
To: Jones, William V., EMNRD
Subject: Cotton Draw Unit 81_SWD 1248_30-015-29345 Fresh Water Analysis on offset
Attachments: Fresh Water Analysis_2-25S-31E_SWD-1248.pdf

Will,

Attached is a fresh water analysis pertaining to Devon's Cotton Draw Unit 81_SWD 1248. Let me know if you need anything else.

Thanks,
Ronnie

Ronnie Slack
Operations Technician
Devon Energy Corporation
CT 3.033
(405) 552-4615 (office)
(405) 552-1415 (fax)
Email: Ronnie.Slack@dvn.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Wednesday, October 20, 2010 2:03 PM
To: Slack, Ronnie
Subject: RE: Approved disposal application from Devon: Cotton Draw Unit #81 30-015-29345 Bell Canyon and Cherry Canyon disposal from 4541 to 5734 feet

Thanks for this and this info.

From: Slack, Ronnie [mailto:Ronnie.Slack@dvn.com]
Sent: Wednesday, October 20, 2010 12:49 PM
To: Jones, William V., EMNRD
Subject: RE: Approved disposal application from Devon: Cotton Draw Unit #81 30-015-29345 Bell Canyon and Cherry Canyon disposal from 4541 to 5734 feet

Thanks Will. I am waiting for a fresh water analysis from a well in Sec 2-T25S-31 and will forward that when I get it from the field. You had requested this in your email dated 9/30/10.

FYI...In our original submittal, I had looked for fresh water wells in the categories of domestic, livestock, and municipal water supplies. None were listed on the State Engineers Web Site. However there were some listed under the Com (commercial) category. They were reportedly used as water supply for drilling operations and water for cattle.

Thanks again,

Ronnie Slack
Operations Technician
Devon Energy Corporation
CT 3.033
(405) 552-4615 (office)

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, October 20, 2010 11:32 AM

To: Slack, Ronnie

Cc: Brooks, David K., EMNRD; Dade, Randy, EMNRD; Gray, Darold, EMNRD; Jay_Spielman@blm.gov; Albers, Jeff J.; llrwb@austin.rr.com

Subject: Approved disposal application from Devon: Cotton Draw Unit #81 30-015-29345 Bell Canyon and Cherry Canyon disposal from 4541 to 5734 feet

SWD-1248 has been signed approved by the Director and will soon be scanned and available for you to download from the Division's imaging site.

Regards,

William V Jones, P.E.

Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



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Fresh Water Analysis Report
Paddock Delaware Water Field Well #9
SE/NE SEC 2-T25S-R31E
Lat 32° 03.723' Long -103° 44.852'

(Pertaining to Devon-Cotton Draw Unit 81_SWD-1248)
30-015-29345

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521 1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	496517
Lease/Platform:	SIERRA FRESH WATER	Analysis ID #:	103888
Entity (or well #):	DEVON	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	PRESSURE PUMP		

Summary		Analysis of Sample 496517 @ 75 °F					
Sampling Date:	10/14/10	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/21/10	Chloride:	1060.0	29.9	Sodium:	682.8	29.7
Analyst:	LEAH DURAN	Bicarbonate:	109.8	1.8	Magnesium:	163.0	13.41
		Carbonate:	0.0	0.	Calcium:	669.0	33.38
TDS (mg/l or g/m3):	4879.5	Sulfate:	2175.0	45.28	Strontium:	10.0	0.23
Density (g/cm3, tonne/m3):	1.004	Phosphate:			Barium:	0.1	0.
Anion/Cation Ratio:	1.0000001	Borate:			Iron:	0.8	0.03
		Silicate:			Potassium:	9.0	0.23
Carbon Dioxide:	50 PPM	Hydrogen Sulfide:			Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:	0.025	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0.10	0.00	0.00	0.00	-0.07	0.00	-0.16	0.00	0.99	0.00	0.13
100	0	0.02	0.35	-0.01	0.00	-0.01	0.00	-0.16	0.00	0.84	0.00	0.17
120	0	0.15	2.44	0.00	0.00	0.07	98.71	-0.14	0.00	0.71	0.00	0.22
140	0	0.29	4.53	0.01	21.28	0.18	225.68	-0.11	0.00	0.61	0.00	0.26

Note 1: When assessing the severity of the scale problem, both the saturation Index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.