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		ADMINISTRATIVE APPLICATION CHECKLIST
THIS CHEC	CKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Application / [NSL [I	Acronym -Non-Star DHC-Down [PC-Po EOR-Qua	s: ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYP	E OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D]	Other: Specify
[2] NOT	[A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

TERRY M. DUFFEY	ma	ullus	PRESIDENT	3-17-09
Print or Type Name	Signature		Title	Date

TDUFFE- (@ EVERDUESTENERA-1. COM e-mail Address

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X_Disposal Storage Application qualifies for administrative approval? X_Yes No
II.	OPERATOR:EverQuest Energy Corporation
	ADDRESS:10 Desta Drive, Ste 300-East, Midland, Texas 79705
	CONTACT PARTY:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE:PHONE
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? YesNo If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Terry M. Duffey TITLE: President
	SIGNATURE:
*	E-MAIL ADDRESS:tduffey@everquestenergy.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.
- XIV. PROOF OF NOTICE
 - All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.
 - Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:
 - (1) The name, address, phone number, and contact party for the applicant;
 - (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
 - (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET (PROPOSED WELL)

ITEM III

Operator:	EverQuest Energy Corpors	ation				
Well Name:	Lovington Deep Yates Stat	te #1	API#:	30-025-29702		
Well Location:	Footage	Unit Letter	Section	Township	Range	
	330 FSL 990 FEL	٩	36	16.5	35F	

WELL CONSTRUCTION DATA

Hole Size: 17.50 Casing Size: 13.375" 48# H40 at 45' # Sacks Cement: 450 Determined by: Circ cmt to surf	SURFACE CASING			
# Sacks Cement: 450 450 Top of Cement: Surf Determined by: Circ cmt to surf	Hole Size:	17.50	Casing Size:	13.375" 48# H40 at 451'
Top of Cement: Surf Determined by: Circ cmt to surf	# Sacks Cement:	450		
	Top of Cement:	Surf	Determined by:	Circ cmt to surf

Hole Size:12.25Casing Size:9.625" 36# K55 at# Sacks Cement:2600Determined by:Circ cmt to sur	NTERMEDIATE CAS	ING		
# Sacks Cement: 2600 Top of Cement: Surf Determined by: Circ cmt to sur	Hole Size:	12.25	Casing Size:	9.625" 36# K55 at 5150'
Top of Cement: Surf Determined by: Circ cmt to su	# Sacks Cement:	2600		
	Top of Cement:	Surf	Determined by:	Circ cmt to surf

PRODUCTION CAS	ING		
Hole Size:	8.750	Casing Size:	5.50" 17# L80 at 12683'
# Sacks Cement:	DV Tool 10584'	Stg1: 1050 sx	Stg2: 3000 sx
Top of Cement:	Surf	Determined by:	Circ 200 sx Stg1 Circ 700 sx Stg2

INJECTION WELL DATA SHEET (PROPOSED WELL)

Plastic coating On-Off tool will be placed above packer Lining Material: Lok-set type tension packer 2.875" 6.5# N80 **TUBING AND PACKER** Other Information: Type of Packer: **Tubing Size:**

Will this by a new well? No, presently P&A'd well If NO, for what purposed was the well originally drilled? Oil & Gas Producer Name of Field or Pool: Shoe Bar, South Name of Injection Formations: Devonian ADDITIONAL DATA

PREVIOUSLY PERFORATED ZONES		
Formation Name	Perfs	Cement Squeeze Details
Devonian	12586-12661'	Intended injection interval
Upper Penn	10540-10700'	Will squeeze these perfs
Wolfcamp	10150-10488'	Will squeeze these perfs

Below Injection Zone: Silurian (but not productive)

ITEM III

EverQuest Energy Corporation Proposed SWD Well – Lovington Deep Yates State #1

Wellbore Construction Plans

The wellbore will re-entered and all previously placed abandonment plugs will be drilledout back to the original PBTD of 12678'. All previously perforated intervals above the original Devonian perforations will be cement squeezed. These squeeze intervals will be pressure tested to insure the mechanical integrity of the 5.50" casing. The formerly productive Devonian perforations 12586-12661' will become the new injection target. An injection packer will be set within 100' of the permitted injection interval. Refer to proposed injection configuration diagram for details. The packer/casing integrity will be pressure tested to 500 psi and chart recorded for 1-hour. Injection will then begin. If injection rates do not prove to be favorable the well will be stimulated with acid. Additional perforations (and/or added open hole below PBTD) within the permitted interval may be added if increased injectivity is needed.

The nearest oil/gas zone immediately above the intended injection target is the Chester interval at 12,500'. Above that rest the Wolfcamp and Pennsylvanian intervals at ~10,000-10,600'. There is one active Chester well and four active Wolfcamp/Penn wells within the ½ mile AOR. The Silurian formation lies below the Devonian. However, there are no productive intervals below the intended Devonian injection interval in this area. The production history curves for the wells within the AOR are included with the application documents for inspection.

Injection Operations

The source of fluids to be injected into this disposal well will originate from nearby oil and gas operations. The fluids will typically be produced saltwater and non-hazardous approved oil field wastes from workover and drilling operations. The fluid handling system will be near the disposal well and will be "closed"; utilizing welded steel tanks for holding after being offloaded from transport trucks and/or piped-in water from nearby production facilities. The anticipated injection operating parameters are summarized in the table below. As a contingency, the stated pressures are well-above the anticipated "vacuum" conditions at which the Devonian typically accepts disposal.

Parameter	Maximum	Average
Injection Rate (bbl/day)	7500	2500
Injection Pressure (psig)	2000	1000





EverQuest Energy Corporation Proposed SWD Well – Lovington Yates Deep State #1

Area of Review

The wellbore conditions of all five (5) wells inside the 0.5-mile radius review area are shown in the attached table. An extensive review of the wellbore mechanics of these wells that penetrate the proposed injection interval shows that they are completed and/or plugged to effectively contain the disposed fluid within the targeted zone and prevent fluid migration and/or injection into useable sources of water or freshwater strata. All active wells isolate any freshwater safely behind two strings of steel casing that were successfully cemented to surface. Furthermore, in each active well, the proposed SWD interval is protected by steel production casing and cement to cover the interval as verified by cement bond logs or the equivalent.

There are no plugged and abandoned wellbores within the AOR.

Certified:

this Terry M. Duffey

President of EverQuest Energy/Corporation

3-21-09

Date:

EverQuest Energy Corporation Lovington Deep Yates State #1 SWD Permit - <u>Area of Review Wells</u>

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ovington Deep Amoco State	1	hevron	025-29703	17s-36e-6	Jan-87 Jan-87 May-94	15272	Act	12678-735 10746-794 10200-405	Active Active Active		16.000	487	400 surf	10.750	5,163	5650 7 surf Sqz	.625 Lnr 494 zd TOL w/ 200	9-13100 0 sx	260 TOL	Ì

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B-9	1970 Protects Parm Disc. F1302 18 P1g.12-1941	152.78 Rich. Com Fuel Pro-	Leave Prins.	0/A1 2 36 0 1 A Magnum Hunter 3/4 to 12,060	(Mewbourne)) 2 · 28 · 2005 / 6 T. Brawn	Zola Mae 1 10 Holland E, CIWO Marbob En 'z M.I Eidson Rch, Inc Chesapedke S/2	A3 20 75) L. 61 Nichols "Boyce Madd G. W. Nickson A Patterson 4 Transfer Chesopeane	Chesapeake 3139 (M 9150-10950 9374 0 Arrington K 5953 Chesapeake tot 6 (1) 2011 (0.700) 2000	12500 1000 12050 1	Lungiade claim. J. Carrisle Chesapeake	C Lister, MI J.T. Carlisle (5)	16	
HBC W/2	Yates (Skely) <i>Butrolo 54</i> TD 13647 (D/A 2 9 54)	HBC Reads. W/2 Steven Eidson Xola Mae To 13085 Holland & Dis 9 8-73 Marbob En. %M.	K 4343 IZ CO HBC Dowrne Rocky '16'St	sto	TMBR/Sharp Exxon MBS/Sharp Exxon To 12,600 Str. Disc He	35 Bristolich	MBRISharf (D. E. Pet.) Jand Arrington) Jand (I. ("Boyce" Sieck mon) , et n (Succorr	Monsanto 10 006 St R MJ CA Ener. Edgel, (R M.Edsel) - Toto 700 (Concho. 06)	Meso Pet - (Wo) (Pubco) - (Meso Dual Disc Mar 7.7 Mil. 9 - Eog Res.	First Not 1 1 Bn So Pet Expl. 12 Mi	Mesa Pet. Sumrula To 12021 k. Midland 2/8, MJ. J.E. Stokes, M.I. G.I. Simrula(S)	5 32°55'	
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иносо рате 013,185 ~	TENTERES	MIDLAND	O Dinero Oper O Edison	11 Mil.	EOG Res. Roc St. Com. 3.7 Mil. EOG Res to Penn.base NE/4	2;///	2 Yotes Eloson	Tringal Bharph Engron At Disc 16 Mills 175 bbls	Veilow Fin Seth Alistoneta MI J. C. Leavelle S 3 Sectors Beberrs S	S.Alston, etal.MI C.E. MSPherson Reading Bates	Geo. 1. Sumrula		
XH2	0/A1-1-67	Arrington Lord Baltimore 20 St WC Disc. 01	Zola Mae Holland & Marbob En. // M.I.	Anne Star To Is	2009 19909	"Polemine Midge St.Com."	Zolu Mae Holland E, Marbob En. ½ M.I. Eidson	Del Apache States Mare DIA 9: 9-65 Hallond E.E. 1/2 MI Mar Dob En. 1/2 MI	John E. Stokes	LE Stokes Patterson Pet. De Blue Fin Car	TMBR/Sharpetal TMBR/Sharpetal 10-10-2004 Yotes Pet C Payne Us 50-2004 TC MBR/Sharpetal		
ime Rock VA+63	Res.	Yates Pet. etal 12 VB : 610	Eidson Rch.	Negrburg	Arrington OE,G V · 5779	Arrington OEG (Ocean Ener) 12 - 1 - 2003 V-5432 166 97	Ranch, Inc. LEOG Res. Morothan H.B.P. B-4284 Arrington	Patterson Pet.	A.M. Depen, etg(G.I. Sumruldska	Christmather Director III II Zoros Will NE/4 June R. Collini III II Collini II Collini Collini II Collini II Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collini Collin Co	-	
	30 Trates Pet.	, 6-	Holog 3 29 2004 A to 28 36 Z. M. Holland & L. Merbab En. 2 R. Eidson Reh, Inc.	2019301-37 7 2019 MaeHolland E, Marbob En, 1/2 M.I. Eidson Rch., Inc. 2	Mustang Midge	EOG Res. M.B.P. Dual B-23 17 I:ASG Crown	VZ VZ Second Condered Second Condered Total Cost	Ciaron Ach. Disc. (8-C) (7/8) (C) (Sinclair) 3 C (Sinclair) 3 C frimero Decr. et al 2 to 1/2658	JE Stakes M. J. Bissett	(5) V Brue Fin (5) V Brue Fin Stakes, M.I., Inw/4 G.I. Sumruld, (5)	Corter and Antonia Corter		
1-ARN (1) = •(F/B)	(Mobil) (Store) (D/A4-3-90) (Wynn Crosby (Jetta, etal /4		,	VERGE	coner 3,155' (HNG Oil) 2662 (HNG Oil) AtokeDisc	PO(1918) UII Yortes Pet. 4: 12000 Meguso St 662 2 (0.44 St) TD:3022 D/A 3: 0: 98 P/8 3060	10-1-2008 Zola Mae Hellands, 1 v.6918 Marbob 655 En. 12 M. Eidson Rench,	(P/8) (PETCO & BBL) (Sinciair) - Primero Op.	Midwest Drig.)	Chesapean Albacare 25 Com Zolo Mot Holland E Marbab En. 1/2 M I. 7 Eldson Parch, Inc	ChesapeaKe 9 i 2009 V8 580 I,112 12		Section 200 Con
Per P		Pattersi VA 13	on Pet. so.Union Northy 317 Folk To II.000	Concho Manzano OEG (Exten)	Yates Pet.etal	Yates Peti 1-1-2005 1406 Opr. 1-1-2005 14 1-2005 Partners 1 V. 7047 WM-St. 1 587.50	(west'n Net) Sinc Grantier J (DA 29-5-1-1-1- Yats Pet., 1-1-1- Yats Pet., 1-1-1- Port	Monsento Scharbour TD Hosso Twin Mon-	Primero Oper. E, Kennedy Primero Oper. E, Kennedy	Arrington OE.G Opi Hackle Drake 36. St El Paso	(Chevron) HBP B-1565 DR Accington		
:		(OPER.)] _ <u>UNIT_</u>] 3	(So. Union) Kothy Folk L.W. Diec.)	Exxon-59. (I-ex) [I-we (we) 0 ; Exxon) Vonsonto New Marcs 70(2,5403 7013100 Provide	3	HNG	V.5679 7327	W/2 HBC DI 1777 C 5 2 7 8 Eidsor Twin Montona Inc.	Ach., Inc.	Vates Pet, etal	6		A
16 /	A - 1320	₩ 4.3 MiJ.	te"	Nadel & Gussman	"BLTN.St."	Forcenergy Partners Shoe Bar Rch.	Shoe Bar Rch.	2.1 Mil. B4286 Echo Prod Echo Prod Edisan Miss Disc. W/2 HBC	VB, 584 Q2370B (P/8) CE (Wesh Nat) (Wesh Nat) (Wesh Nat) (Mamco St.)	1.1.2005 V.5692 IB 15 Paso A omco- TD 530 TD 530 TD 540 B 1 - 5to	V-5957 51. Mebil 145 Verter Deep te		outh
Encore	CTO Anothon 5-21-76 HBC K-6113 2 20-89 1 2 	Sh BHA JUHA Patt H.B.P.		57 BBSAL 1 449 A 3 BP Amer. HBP B-1506	Devon Ener.	Forest Oil HING Oil) Shore Road Ref. Janii Marrow	Sol West. III) a) L. 5316 Foulconer	Sol West, III H B P L-Sale	(Fida) 24 Patterson Pet. A-1320	Pure	Res. PZEI		least
₩1 BTA HBC L.630 Warren, tofiz D/A 9 30 53	KTO En H. B. P. B. 1527	Encore St Com. (D)	(IMBR/Sharp) St 5: Henn Disc. F40		AIS 20 THOR HAR I	CH. UNIT	Stenetind - AF	3 V2	2.cx Nedrourg	(Mobil) Lovington	() (Per Disc) (Per Disc)		
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South	arson weh(5)	D.E. Exxon- Gonzales H.B.P.	Ocean D.E. Ener. Sonzales	Chevron B-1030	Marathon	Gunemoke	Conoco Phillips	Amerind Viehar	Phillips	(I-N	ASI Monzano I AJ	1	

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Lease Name: DOUBLE HACKLE PEACOCK 31 STATE COM County, State: LEA, NM Operator: ARRINGTON DAVID H OIL & GAS INCORPOR Field: SHOE BAR Reservoir: CHESTER Location: 31 16S 36E SW

ARRINGTON DAVID H OIL & GAS INCORPOR: DOUBLE HACKLE PEACOCK 31 STATE COM # 1 - CHESTER



Lease Name: LOVINGTON DEEP YATES STATE County, State: LEA, NM Operator: MOBIL PRODUCING TEXAS & NEW MEXICO I Field: SHOE BAR SOUTH Reservoir: DEVONION Location: 36 16S 35E SE SE

MOBIL PRODUCING TEXAS & NEW MEXICO I: LOVINGTON DEEP YATES STATE # 1 - DEVONION



Lease Name: LOVINGTON DEEP YATES STATE County, State: LEA, NM Operator: MOBIL PRODUCING TEXAS & NEW MEXICO I Field: SHOE BAR SOUTH Reservoir: WOLFCAMP Location: 36 16S 35E SE SE MOBIL PRODUCING TEXAS & NEW MEXICO I: LOVINGTON DEEP YATES STATE # 1 - WOLFCAMP



Lease Name: LOVINGTON DEEP YATES STATE County, State: LEA, NM Operator: MOBIL PRODUCING TEXAS & NEW MEXICO I Field: SHOE BAR SOUTH Reservoir: UPPER PENNSYLVANIAN Location: 36 16S 35E SE SE

MOBIL PRODUCING TEXAS & NEW MEXICO I: LOVINGTON DEEP YATES STATE # 1 - UPPER PENNSYLVANIAN



MOBIL PRODUCING TEXAS & NEW MEXICO I: KRITI STATE 31 # 1 - UPPER PENNSYLVANIAN



Lease Name: KRITI STATE 31 County, State: LEA, NM Operator: CHEVRON MIDCONTINENT LIMITED PARTNER Field: SHOE BAR SOUTH Reservoir: WOLFCAMP Location: 31 16S 36E SW SW

CHEVRON MIDCONTINENT LIMITED PARTNER: KRITI STATE 31 # 1 - WOLFCAMP



Lease Name: LOVINGTON DEEP STATE County, State: LEA, NM Operator: MOBIL PRODUCING TEXAS & NEW MEXICO I Field: SHOE BAR SOUTH Reservoir: UPPER PENNSYLVANIAN Location: 1 17S 35E SW NE

MOBIL PRODUCING TEXAS & NEW MEXICO I: LOVINGTON DEEP STATE # 3 - UPPER PENNSYLVANIAN



CHEVRON MIDCONTINENT LIMITED PARTNER: LOVINGTON DEEP STATE # 3 - WOLFCAMP



Lease Name: LOVINGTON DEEP STATE County, State: LEA, NM Operator: MOBIL PRODUCING TEXAS & NEW MEXICO I Field: SHOE BAR SOUTH Reservoir: DEVONION Location: 1 17S 35E NE NE MOBIL PRODUCING TEXAS & NEW MEXICO I: LOVINGTON DEEP STATE # 1 - DEVONION



Lease Name: LOVINGTON DEEP STATE County, State: LEA, NM Operator: CHEVRON MIDCONTINENT LIMITED PARTNER Field: SHOE BAR SOUTH Reservoir: WOLFCAMP Location: 1 17S 35E NE NE

CHEVRON MIDCONTINENT LIMITED PARTNER: LOVINGTON DEEP STATE # 1 - WOLFCAMP



Lease Name: LOVINGTON DEEP STATE County, State: LEA, NM Operator: CHEVRON MIDCONTINENT LIMITED PARTNER Field: SHOE BAR SOUTH Reservoir: UPPER PENNSYLVANIAN Location: 1 17S 35E NE NE

CHEVRON MIDCONTINENT LIMITED PARTNER: LOVINGTON DEEP STATE # 1 - UPPER PENNSYLVANIAN



Lease Name: LOVINGTON DEEP AMOCO STATE County, State: LEA, NM Operator: CHEVRON MIDCONTINENT LIMITED PARTNER Field: SHOE BAR SOUTH Reservoir: WOLFCAMP Location: 6 17S 36E SW NW

CHEVRON MIDCONTINENT LIMITED PARTNER: LOVINGTON DEEP AMOCO STATE # 1 - WOLFCAMP



Lease Name: LOVINGTON DEEP AMOCO STATE county, State: LEA, NM Operator: CHEVRON MIDCONTINENT LIMITED PARTNER Field: SHOE BAR SOUTH Reservoir: UPPER PENNSYLVANIAN Location: 6 17S 36E SW NW CHEVRON MIDCONTINENT LIMITED PARTNER: LOVINGTON DEEP AMOCO STATE # 1 - UPPER PENNSYLVANIAN



EverQuest Energy Corporation Proposed SWD Well – Lovington Deep Yates State #1

Geological

The objective disposal zone is the Devonian formation.

Devonian

The primary injection zone (Devonian ~12,600') produces in several prolific fields in the vicinity; Shoebar, Caudill, Dean and Denton. All of these fields lie on structural anticlines. The subject well is located in the Shoe Bar, South Field – also a Devonian anticline structure. There are no existing Devonian producers in this field. The last production from the zone was during 1992. The subject well accumulated 42 MBO and 80 MBW prior to P&A. The Devonian formation is highly fractured and, as a result, normal injection pressures are quite low (vacuum).

The Devonian formation is typically very thick. Normally, if oil production is found, it resides in the upper level and overlies an extensive waterleg. Typically the Devonian lithology is dolomitic rock enhanced with extensive natural vertical fracturing.

Hydrology

The Ogallala formation is the principal source of groundwater in the vicinity of this proposed SWD site. There are no useable quality drinking water zones below the Devonian formation.

Information from the NM WAIDS website shows a number of samples from Section 25, T16S, R35E. The Ogallala is 42 to 84 deep in this area. The closest Ogallala water samples were taken from a well located in Section 26. Three samples taken in 1979, 1984 and 1990 show slightly increasing chloride concentrations of 50, 55 and 65 mg/l respectively during that 11-year time frame. A fresh water well on the Eidson Ranch, within 1-mile of the proposed disposal site, was sampled and analyzed on 12-15-2008. The chloride content was 104 mg/l and TDS 553 mg/l. There is no apparent contamination of the freshwater in the area.

A water analysis of Devonian formation water taken from the EverQuest Energy-Mobil State COM #1 well in Section 30, T16S, R36E is attached. Total dissolved solids (TDS) is 32,092 mg/l. It would be reasonable to assume that the Devonian water at the subject SWD location has a similar chloride concentration. Water samples/analysis from Permo-Penn and Abo formation produced waters are included with this application. These are representative of the type waters that will be transported to this commercial facility for disposal. None of the waters exhibit scaling tendencies for any problematic minerals other than calcite (CaCO3), which is acid soluble.

The NM WAIDS website was used to mix various representative water samples and determine the scaling tendencies using the Stiff-Davis method. Three mixes were evaluated: Devonian/Abo, Devonian/Permo-Penn and Permo-Penn/Abo; all at a volume ratio of 1:1. All of the water mixing calculations shows no problematic scaling tendencies from the injectant into the subject well. The slight scaling tendency for calcite can be eradicated with periodic acid treatments.

Based on the available geologic and engineering data we find no evidence of open faults or any other hydrologic connection between the intended disposal zone and any underground sources of drinking water.







Schlumberger BlueView :



ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: Affiliation: Date:	John M. Cys Energy Reserves Group, Inc. August 1976 Ecounty & State: Lea County, New Mexico
Discovery Wel	H:Jake L. Hamon #1 State "K-33", NE/4 SW/4, Section 30, T-16-S, R-36-E. Completed 9-23-68.
Exploration M	ethod Leading to Discovery:
	Combination seismic and subsurface
Pay Zone: Formation Lithology	"Devonian" of older, incorrect usage Name: Undiff. Silurian Depth & Datum Discovery Well: 13013 (-9051) Description: White (dominant color)-tan-gray, fine-medium crystalline dolomite with some inter- bedded white-tan, dense, very fine-medium recrystallized, micritic limestone. Interstitial porosity in the dolomite.
Approxim	nate average pay: <u>27</u> gross <u>15</u> net Productive Area <u>440</u> acres
Type Trap:	Asymmetric anticline. It is possible the south flank is faulted instead of having steep southward dip.
· .	· · · · · · · · · · · · · · · · · · ·
Reservoir Data <u>6-11</u> Oil: Gas: Water: Spec	a: _% Porosity,Md Permeability,% Sw,% So 61° API gravity Na+K, <u>2120</u> Co, <u>440</u> Mg, <u>28,000</u> CI, <u>1530</u> SO ₄ , <u>600</u> CO ₂ , or HCO ₃ , <u>31</u> Fe ific Gravity <u>1.03</u> Resistivity <u>0.08</u>
Initi	al Field Pressure: <u>5017</u> psi @ <u>-9062</u> datum Reservoir Temp. <u>160</u> °F
Туре	of Drive:
	Water
Normal Comple	tion Practices: Set 5-1/2" casing to top of pay and complete open hole with no treatment or 500 to 3200 gallons acid. Second method is to set 5-1/2" casing to total depth, selectively perforate with 1 to 4 shots per foot, and complete natural or acidize with 500 to 3200 gallons.
Type con	npletion: Normal Well Spacing <u>40</u> Acres
Deepest Horiz Other Produci	<pre>con Penetrated & Depth: Undifferentiated Silurian 13013 (-9051). Deepest penetration into the Undifferentiated Silurian wat 87' by the Hamon #1 State "K-33". ing Formations in Field:</pre>

Upper Pennsylvanian (Cisco).

Production Data:

EAR	YPE	No. of @ yr	wells . end	PRODUCTION OIL IN BARRELS GAS IN MMCF			YPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		
⊢	-	Prod.	Abd.	ANNUAL	CUMULATIVE	≻		Prod.	S.1.or Abd,	ANNUAL	CUMULATIVE	
68	OIL	1		23,845	23,845	72	OIL	8		451,741	1,172,329	
	GAS			16	16		GAS			116	334	
69	OIL	3		258,859	282,704	73	OIL	7	1	208,303	1,380,632	
	GAS			67	83		GAS			64	398	
70	OIL	3		200,664	483,368	74	OIL	7	1	116,775	1,497,407	
	GAS			70	152		GAS			48	446	
71	OIL	6		237,220	720,588	75	OIL	7	1	93,588	1,590,995	
	GAS			65	217		GAS			46	493	







New Mexico Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads
Township: 16S Range: 35E Sections: 25
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) Owner Name: (First) (Last)
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help
* DEPTH TO FRESH WATTER
AVERAGE DEPTH OF WATER REPORT 12/05/2008 (Depth Water in Feet)
Bsn Tws Rng Sec ZoneXY WellsMinMaxAvgL16S35E256428454
Ford Count: 6

)

)

New Mexico Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads
Township: 16S Range: 35E Sections: 25
NAD27 X: Y: Zone: Search Radius:
County: Basin: Suffix: Suffix:
Owner Name: (First) (Last) ONOn-Domestic ODomestic I All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form IWATERS Menu Help
WATER COLUMN REPORT 12/05/2008

	(quarter	s are 1=	=NW 2	=NE	3=SW 4=SE)						
	(quarter	s are b:	igges	t to	smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng See	p p c	q	Zone	х	Y	Well	Water	Column	
L 08978	16S	35E 25	1 1					120	48	72	
<u>1 128</u>	16S	35E 25	2 1	1				100	42	58	
1)434	16S	35E 25	21	4				80			
L 09480	_ 16S	35E 25	2 1	4				60			
L 09479	16ṡ	35E 25	2 1	4				60			
L 11704	16S	35E 25	22					160			
L 09124	16S	35E 25	22	4				126	84	42	
L 06543	16S	35E 25	23	1				55	42	13	
L 07035	165	35E 25	23	3				120	50	70	
L 06128	16S	35E 25	24					115	60	55	
L 08247	16S	35E 25	31					116			

Record Count: 11

)

NM WAIDS Ground Water Sample Search





PHONE (575) 390-2326 . 101 E. MARLAND . HOBBS. NH 64240

ANALYTICAL RESULTS FOR GANDY CORPORATION ATTN: DONNY COLLINS PO BOX 2140 LOVINGTON, NM 88280 FAX TO: (575) 396-0787

Receiving Date: 12/15/08 Reporting Date: 12/16/08 Project Number: NOT GIVEN Project Name: NOT GIVEN Project Location: NOT GIVEN

NEARBY

FRESH WATER

WELL

Sempling Data: NOT GIVEN Sample Type: WATER Sample Condition: MITACT Sample Received by: ML Analyzed By: TR

			Na	Ca	Mig	ĸ	Conductivity	T-Alkesininy
	LAB NUMBER	SAMPLE ID	(ngAL)	(mast)	(mps/L)	(mapf.)	(a Stani)	(mgCaCO_A_)
	ANALYSIS DAT		12/19/08	12/16/08	12/16/08	12/16/08	12/15/08	12/15/08
	1116516-1	BRINE WATER Wasser-hund	104,005	1,080	5.130	3,440	370.000	50
>	H16516-2	FRESH WATER	71	101	15.6	2,3	850	240
	Winderill	- Close proximity to		and in Mary 1 and the local day	·	····		
		Albacost well.			- 1988 · · · · · · · · · · · · · · · · · ·	(***): #27597-0 ¹⁵ 7-01000-50775-146	ander franker i sonder en state en sonder en sonder franker en sonder en sonder en sonder en sonder en sonder En sonder en sonder e	1999/1999 - 1999 - 200 Million 2004 - 1999/2003 - 1975 - 1
						······································		
						1.1 () () () () () () () () () (and a second	و (اختسبان وی دیاند بور پر اور ایکسانون و از ۱۰۰۰۰ ا
	Quality Control		NR	48.1	61.0	2.83	1,421	NR
	Trus Value QC		NR	50.0	50.0	3.00	1,413	NR
	% Recovery		NR	96.2	102	96.9	101	NR
	Relative Percen	(Daterence	NR	<0.1	<0.1	3.5	1.0	NR
	METHOOS:	n <mark>ge av Ele Elgeptolitatelle</mark> et else salles et al de la faite d'un pression d'actave annaere p	SNO	500-Ca-D3	500-Ma E	8049	120.1	310.1

METHOOS:

3M3500-Ca-D3500-Mg E

8049

120.1

		CI	SO,	-CO3-	HCO3	pH	TDS
		(mgA_)	(mg/L)	(mg/L)	(mg/L)	(5.0.)	(mg/L)
ANALYSIS DA	ATE:	12/16/00	12/16/08	12/15/08	12/15/08	12/16/08	12/15/08
H16518-1	BRINE WATER	178,000	6,870	0	110	6.35	309,000
H16516-2	FRESH WATER	104	84.6	0	293	7.55	553
	արտարապատաստաների էն անական հայտներությունները է է է է է է է է է է է է է է է է է է է						
and the second second second second	Al Server & manufacturally care of a marketing of the second second second second second second second second s			() (م در	· · · · · · · · · · · · · · · · · · ·		
مارهونان و معمد بالمحمد و المحمد و الم	nan in an	91.)			·		
Ountry Contry		490	43.5	NR	1000	7.04	NR
Trita Value O	C.	500	40.0	NR	1000	7.00	NR
A Day where a	and (1973) is a subsection of the second sec	88.0	109	MR	100	101	NR
Relative Perc	ent Difference	2.0]	0.7	NR	40. 1	-0.1	NR.
ALTERIASTO D.	n an	SMA500-CI-B	375.4	310.1	310.1	150.1	180.1
MEINUD.	n na 1 militare et al a constante la parte anticipar e transmissione de la parte de server d'anna d'a segurar a			anista a a million to a substantia	an ang ang ang ang ang ang ang ang ang a	and an	

17-Date

PLEASE NOTE: Laspite and Dansace. Cardinal's Excitive and otient's excitable range on pain affet a whole the section of the se



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	Everquest		Sample #:	11636	
Area:	Lovington		Analysis ID #:	1304	
Lease:	Generic				
Location:	Location	0			
Sample Point:	Wellhead				

TYPICAL PRODUCED WATER

0.09

0.15

120

140

0.56

0.84

-0.64

-0.70

0.00

0.00

-0.45

-0.42

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

											_	
Sampling Date:	:	1/13/2009	Anions		mg/	'l m	eq/l	Catio	ns	n	ng/l	meq/l
Analysis Date:		1/16/2009	Chlorid	e:	142156.2	2 4009	.71	Sodiu	ım:	7750	0.5	3371.08
Analyst:		Mitchell	Bicarbo	onate:	48.9)	0.8	Magn	esium:	197	1.5	162.18
TDS (mail or al	m3).	231837.4	Carbon	ate:	0.0)	0.	Calci	um:	973	6.4	485.85
Donsity (d/cm3	\. \.	1 161	Sulfate		420.0) 8	.74	Stron	tium:			
Density (g/cm3	<i>)</i> .	1.101	{					Bariu	m:			
								Iron:		:	3.6	0.13
Hydrogen Sulfid	e:							Mang	anese:	0.3	20	0.01
Carbon Dioxide:												
			pH at tir	ne of samplin	g:	6	.48					
Comments:			pH at tin	ne of analysis	:							
Primero Eloson :	#1 450		pH used	d in Calculati	on:	6.48		0				007000
			Temper	Temperature @ lab conditions (F): 75			Conductivity (micro-ohms/cm): Resistivity (ohm meter):			.0424		
		Values Ca	alculated	at the Give	n Conditio	ns - Amou	nts	of S <u>ca</u>	le in Ib/10	00 bbl		
Temp	CalciteGypsumAnhydriteempCaCO3CaSO42H20CaSO4			Celes SrS	stite SO ₄	Barite BaSO ₄						
°F	Index	Amount	Index	Amount	Index	Amount	łn	dex	Amount	Index	Amount	
80	-0.04	0.00	-0.48	0.00	-0.44	0.00	0	.00	0.00	0.00	0.00	
100	0.03	0.00	-0.57	0.00	-0.46	0.00	0	.00	0.00	0.00	0.00	



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	Everquest		Sample #:	11635	
Area:	Lovington		Analysis ID #:	1302	
Lease:	Generic				
Location:	Location	0			
Sample Point:	Wellhead				

TYPICAL PRODUCED UPTER

Sampling Date:	1/14/2009	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	1/16/2009	Chloride:	113124.3	3190.82	Sodium:	66874.1	2908.86
Analyst:	Mitchell	Bicarbonate:	171.1	2.8	Magnesium:	785.7	64.63
TDS (mg/l or g/m3): Density (g/cm3):	187323.6 1.13	Carbonate: Sulfate:	0.0 1380.0	0. 28.73	Calcium: Strontium: Barium:	4984.8	248.74
					Iron:	3.0	0.11
Hydrogen Sulfide:					Manganese:	0.580	0.02
Carbon Dioxide:							
A		pH at time of sampli	ing:	6.67			
Comments:		pH at time of analys	is:				
Lovington Deep State #1 アチルト	O-PEND	pH used in Calcula	ition:	6.67	O	h t	040000
		Temperature @ lab conditions (F):		75	Resistivity (ohm	ero-onms/cm): meter):	212200 .0471

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
•F	Index	Amount	Index		Index-	Amount-	Index	Amount	Index	Amount	
80	0.37	6.73	-0.22	0.00	-0.20	0.00	0.00	0.00	0.00	0.00	
100	0.43	8.48	-0.29	0.00	-0.21	0.00	0.00	0.00	0.00	0.00	
120	0.49	10.23	-0.36	0.00	-0.19	0.00	0.00	0.00	0.00	0.00	
140	0.55	11.99	-0.41	0.00	-0.16	0.00	0.00	0.00	0.00	0.00	



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	Everquest	Sample #:	11634
Area:	Lovington	Analysis ID #:	1303
Lease:	Generic		
Location:	Location 0		
Sample Point:	Wellhead		

TYPICAL PRODUCES WATER

Sampling Date:	1/14/2009	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	1/16/2009	Chloride:	106116.6	2993.16	Sodium:	56342.0	2450.74
Analyst:	Mitchell	Bicarbonate:	97.8	1.6	Magnesium:	1673.8	137.7
TDS (mg/l or g/m3): Density (g/cm3):	173202.7 1.12	Carbonate: Sulfate:	585.0	12.18	Calcium: Strontium: Barium:	8385.7	418.45
					Iron:	1.6	0.06
Hydrogen Sulfide:	0				Manganese:	0.230	0.01
Carbon Dioxide:							
		pH at time of samplin	g:	6.54			
Comments:		pH at time of analysis	:				
Kyfitti-State 31 #1 PEI2N	NO-PENN'S	pH used in Calculati	6.54				
		Temperature @ lab o	conditions (F):	75	Conductivity (mic Resistivity (ohm i	:ro-ohms/cm): meter):	197000 .0508

Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		-
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.15	1.78	-0.39	0.00	-0.38	0.00	0.00	0.00	0.00	0.00	
100	0.23	2.67	-0.46	0.00	-0.38	0.00	0.00	0.00	0.00	0.00	
120	0.30	3.85	-0.52	0.00	-0.36	0.00	0.00	0.00	0.00	0.00	
140	0.38	5.04	-0.56	0.00	-0.31	0.00	0.00	0.00	0.00	0.00	

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

Sales RDT:

Company:
Region:
Area:
Lease/Platform:
Entity (or well #):

EVERQUEST ENERGY
PERMIAN BASIN
HOBBS, NM
MOBIL COM
1
UNKNOWN
GUN BARREL

Account Manager:		CURRY PRUIT (505) 910-9388						
	Sample #:	331857	<i>r</i>					
	Analysis ID #:	48796						
	Analysis Cost:	\$40.00						

Sample Point:

Formation:

TYPICAL PRODUCED WATER

33517

Summary	Analysis of Sample 331857 @ 75 °F								
Sampling Date: 2/15/05	Anions mg/l	meq/l	Cations	mg/l	meq/l				
Analysis Date: 2/22/05	Chloride: 18074.0	509.8	Sodium:	10362.5	450.74				
Analyst: SALLY MOCRE	Bicarbonate: 488.0	8.	Magnesium:	223.0	18.34				
TDS $(ma/l or a/m3)$; 32092	Carbonate: 0.0	0.	Calcium:	1332.0	66.47				
Density (g/cm3 tonne/m3): 1.023	Sulfate: 1270.0	26.44	Strontium:	40.0	0.91				
Anion/Cation Batio: 0.9999999	Phosphate:		Barium:	0.5	0.01				
	Borate:		Iron:	4.0	0.14				
	Silicate:		Potassium:	298.0	7.62				
			Aluminum:						
Carbon Dioxide: 40 PPM	Hydrogen Sulfide:	35 PPM	Chromium:						
Oxygen:	pH at time of sampling:		Copper:						
Comments: DENONIAN		7 07	Lead:						
DEICHIFIC	pH at time of analysis:		Manganese:						
,	pH used in Calculation:	7.37	Nickel:						

Cond	itions		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl											
Temp Gauge Press.		Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		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.	0.96	46.17	-0.37	0.00	-0.43	0.00	-0.12	0.00	1.10	0.34	0.2		
100	0	1.03	52.96	-0.40	0.00	-0.39	0.00	-0.11	0.00 ,	0.94	0.34	0.28		
120	0	1.11	60.09	-0.41	0.00	-0.32	0.00	-0.10	0.00	0.80	0.34	0.38		
140	0	1.18	67.90	-0.42	0.00	-0.23	0.00	-0.08	0.00	0.68	0.34	0.51		

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.

NM WAIDS Water Sample Mix

November of Manager	NM WAIDS
THE REPORT OF THE PARTY OF THE	DATA MAPS HOME SCALE
	Water Sample Mix
STATE OF	Water Sample 1: Ions & Dissolved Gases (mg/L) PERMO ーアミントン
	Ca^{++} 4985 Mg^{++} 786 Na^{+} 66874 Ba^{++} 0 Fe^{++} 3 Sr^{++}
	$CO_3 = 0$ HCO3 ⁻ 171 SO ₄ = 1380 Cl ⁻ 113124 OH ⁻ 0
	H_2S 0 O_2 0 O_2
	pH 6.7 Temperature (F) 75 Volume 1 (L) 100
	Water Sample 2: Ions & Dissolved Gases (mg/L) A80
	Ca ⁺⁺ 9736 Mg ⁺⁺ 1972 Na ⁺ 77501 Ba ⁺⁺ 0 Fe ⁺⁺ 3.6 Sr ⁺⁺
	$CO_3 = 0$ HCO_3^- 49 $SO_4 = 420$ Cl^- 142156 OH^- 0
	H_2S 0 O_2 0 CO_2 0
	pH 6.5 Temperature (F) 75 Volume 2 (L) 100
	Instructions:
	There are two types of mixing available:
	Mix by Ratio: Insert Temperatures and Ratios for each sample and the Total Volume.
	Mix by Volume: Insert Temperatures and Volumes for each sample.
	Then click Mix.
	Mix Water by Ratio* Total Volume (L)
	Mix Water By Volume

This will give you a mixed sample, which you can then use to calculate scaling tendencies by clicking the Ca Scale button. You will be taken to the Calculate Scale page and can choose the method you want.

Mix

Mixing Water

http://octane.nmt.edu/waterquality/scale/calmix.asp?SampleID1=0000&SampleID2=0000

NM WAIDS V	Water Sai	mple Mix	ι:ι	RE PE	RMO-PER	AB	o mix		Pa	.ge 2 of 2	2
Ca^{++} $CO_3^{=}$ H_2S	7360.5 0 0	Mg ⁺⁺ HCO ₃ ⁻ O ₂	1379 110 0	Na^+ $SO_4^=$ CO_2	72187.5 900 0	Ba ⁺⁺ Cl ⁻	0 127640	Fe ⁺⁺ OH ⁻	3.3 0	Sr ⁺⁺	
Temperat	ture		75	Ionic S	Strength Calcula	ite Scale	3.87	pH TDS	6.59 137,39	3	(





http://octane.nmt.edu/waterquality/scale/calmix.asp?SampleID1=0000&SampleID2=0000

1/22/2009

Stiff Davis Method 1:1 PERMO-PENN/P	Bo MIX				
CaCO3 Saturation Index	Total Possible CaSO4 scale (mg/L)				
3:50 1 S1 1 2:28 0.08623 1 2:28 0.07 2 1.07 0.07	T mg/L -1143 50 -828.16 75 -822.95 90 -818.58 110 -829.20 140 -846.05 150 -870.45				
0.00 0.00 0.00	-1076 170 -896.91				
20 40 60 80 100120140160 80200220 Temperature (F)	20 40 60 80 100120140160180200220 Temperature (F)				
Total Possible CaCO3 scale (mg/L)	Total Possible BaSO4 scale (mg/L)				
159 159 85.3 9 85.3 -63.6 159 159 159 159 159 159 150 150 150 150 150 150 122 168.970 140 175.617 158 178.771 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 179.787 194 180.261 176 177 176 179.787 194 180.261 176 177 176 179.787 194 180.261 176 177 176 179.787 194 180.261 176 177 176 179.787 194 180.261 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 177 176 179.787 194 180.261 175 177 176 179.787 194 180.261 180.261 180 180 180 180 180 180 180 18	-3:20 m =2.40 =-1.60 =0.81 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -3:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20 -1:20				
20 40 60 80 100120140160180200220	20 40 60 80 100120140160180200220				
Temperature (F)	0.00 remperature (r.)				

If you are using Internet Explorer and do not see any graphs, then go to Tools > Internet Options > Advanced > Java (Sun) > 'Uncheck' Use Java 2 v1.4.2_03 for applet>.

NM WAIDS Water Sample Mix

The summer of the second s	NM WAIDS
I LA LE LA PROVINCIA DE LA PRO	DATA MAPS HOME SCALE COR
	Water Sample Mix
	Water Sample 1: Ions & Dissolved Gases (mg/L) Devolution in the second
	pH 7.4 Temperature (F) 75 Volume 1 (L) 100
	Water Sample 2: Ions & Dissolved Gases (mg/L) $+60$ Ca ⁺⁺ 9736 Mg ⁺⁺ 1972 Na ⁺ 77501 Ba ⁺⁺ 0 Fe ⁺⁺ 3.6 Sr ⁺⁺ CO ₃ = 0 HCO ₃ ⁻ 49 SO ₄ = 420 Cl ⁻ 142156 OH ⁻ 0 H ₂ S 0 O ₂ 0 CO ₂ 0
	pH 6.5 Temperature (F) 75 Volume 2 (L) 100
	There are two types of mixing available:
	Mix by Ratio: Insert Temperatures and Ratios for each sample and the Total Volume.
	Mix by Volume: Insert Temperatures and Volumes for each sample.
	Then click Mix.
	Mix Water by Ratio* *You must enter a total volume to use this method.CTotal Volume (L)IMix Water By Volume•
	Mix

This will give you a mixed sample, which you can then use to calculate scaling tendencies by clicking the Calculate button. You will be taken to the Calculate Scale page and can choose the method you want.

Mixing Water

http://octane.nmt.edu/waterquality/scale/calmix.asp?SampleID1=0000&SampleID2=0000

1/22/2009

NM WAIDS V	Vater Sa	mple Mix	1:1	DEVOR	sign/AB	o Mi	\succ		Pa	age 2 of	2
Ca ⁺⁺ CO ₃ = H ₂ S	5534 0 17.5	Mg ⁺⁺ HCO ₃ ⁻ O ₂	1097.5 268.5 0	Na ⁺ SO ₄ = CO ₂	43932 845 20	Ba ⁺⁺ Cl ⁻	0.25 80115	Fe ⁺⁺ OH ⁻	3.8 0	Sr ⁺⁺	
Temperat	ure	7	5	Ionic St	trength Galcula	ite Scale	2.47	pH (TDS	6.75 87,884		(



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1/22/2009

Stiff Davis Method 1:1 DE VORIAN ABO Mix	
CaCO3 Saturation Index	Total Possible CaSO4 scale (mg/L)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} T & mg/L \\ \hline 50 & -1513.8 \\ 75 & -1517.5 \\ 90 & -1522.5 \\ 110 & -1494.1 \\ 140 & -1475.4 \\ 150 & -1467.5 \\ 170 & -1467.5 \\ 170 & -1451.3 \\ \hline 20.40 & 60.80 & 100120140160180200220 \\ \hline \\ \hline \end{array}$
Total Possible CaCO3 scale (mg/L)	Total Possible BaSO4 scale (mg/L)
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Temperature (F)	Temperature (F)

If you are using Internet Explorer and do not see any graphs, then go to Tools > Internet Options > Advanced > Java (Sun) > 'Uncheck' Use Java 2 v1.4.2_03 for applet>.

NM WAIDS	
DATA MAPS HOME SCALE	T
Water Sample Mix	
Water Sample 1: Ions & Dissolved Gases (mg/L) $D \in V \circ h \circ$	
H_2S 35 O_2 O CO_2 40 pH $\overline{7.4}$ Temperature (F) $\overline{75}$ Ratio 1 100 Water Sample 2: Ions & Dissolved Gases (mg/L)	
Ca ⁺⁺ 4985 Mg ⁺⁺ 786 Na ⁺ 66874 Ba ⁺⁺ 0 Fe ⁺⁺ 3 Sr ⁺⁺ CO ₃ = 0 HCO ₃ ⁻ 171 SO ₄ = 1380 Cl ⁻ 113124 OH ⁻ 0 H ₂ S 0 O ₂ 0 CO ₂ 0 Cl ⁻ 113124 OH ⁻ 0	
pH6.7Temperature (F)75Ratio 2100Instructions: There are two types of mixing available:	
Mix by Ratio: Insert Temperatures and Ratios for each sample and the Total Volume. Mix by Volume: Insert Temperatures and Volumes for each sample.	

 Mix Water by Ratio*
 C
 Total Volume (L)

 *You must enter a total volume to use this method.
 Image: C
 Total Volume (L)

 Mix Water By Volume
 Image: C
 Image: C

This will give you a mixed sample, which you can then use to calculate scaling tendencies by clicking the Calculate button. You will be taken to the Calculate Scale page and can choose the method you want.

Mixing Water

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NM WAIDS	Water Sai	mple Mix	1: (6	DEVONIA	~/PERME	-12-1-	wix		Pa	ige 2 of 2
.Ca ⁺⁺ CO ₃ =	3158.5 0	Mg ⁺⁺ HCO ₃ -	504.5 329.5	Na ⁺ SO ₄ =	38618 1325	Ba ⁺⁺ Cl ⁻	0.25 65599	Fe ⁺⁺ OH ⁻	3.5 0	Sr ⁺⁺
H_2S	17.5	0 ₂	0	CO ₂	20					
Tempera	ture	7	5	Ionic Str	ength Galcula	ate Scale	2	pH 6.4 TDS	70,940	· (
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New Mexico Ter

http://octane.nmt.edu/waterquality/scale/calmix.asp?SampleID1=0000&SampleID2=0000

1/22/2009

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Stiff Davis Method (:1 DENONIAN /PERMO-F	END MIX			
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438 T mg/L 438 32 -267.63 50 -55.621 75 96.4647 86 251.576 104 358.847 122 439.327 140 493.134 158 519.312 176 531.055 194 536.4600 212 538.777 0.11 0.11	Total Possible CaCO3 scale (mg/L)	Total Possible BaSO4 scale (mg/L)			
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If you are using Internet Explorer and do not see any graphs, then go to Tools > Internet Options > Advanced > Java (Sun) > 'Uncheck' Use Java 2 v1.4.2_03 for applet>.



Begin the Climb...

March 2009

a contraction

RE: NOTIFICATION OF SALTWATER DISPOSAL APPLICATION Lovington Deep Yates State #1

To Potentially Affected Parties:

EverQuest Energy Corporation is applying for a saltwater disposal permit for commercial purposes. The disposal well is a previously plugged and abandoned wellbore that will be re-entered. The disposal zone will be the Shoe Bar South, Devonian interval from 12,586 to 12,800 feet. The Devonian zone previously produced in several wells in this field. The last year of Devonian production in this field was 1992. Current production is from the Wolfcamp-Penn section approximately 2000 feet above the Devonian top.

The Applicant can be contacted at the following address: 10 Desta Drive, Suite 300-East Midland, Texas 79705 432-686-9790

The wellbore location is as follows:

Section 36, T16S, R35E, Unit P Lea County, New Mexico 330' FSL and 990' FEL API# 30-025-29702

The injection interval being permitted with the enclosed Form C-108 is penetrated by three (3) other wells inside the 1/2-mile radius area of review (AOR) surrounding the proposed disposal well. None of these wells are producing in the proposed injection interval.

The OCD requires that wellbore configuration of every well within the ½-mile AOR be reviewed by the Applicant. The results of the review demonstrate that all wells are completed and/or isolated in a manner that will effectively contain the disposed fluid solely to the targeted zone. Steel production casing was set through the Devonian zone and sufficient cement was pumped to cover the Wolfcamp/Penn zones that produce in the area. Any abandoned Devonian perforations have been squeezed or isolated with CIBP/cement plug, or equivalent.

Any affected party who has an objection to this application must give notice to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15-days from the postmarked date of this certified mail notice. Additional information can be obtained by contacting me at the letterhead address.

Sincerely,

Monthey

Terry M. Duffey President

Affidavit of Publication

State of New Mexico, County of Lea.

I, KATHI BEARDEN PUBLISHER

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s). Beginning with the issue dated March 15, 2009 and ending with the issue dated March 15, 2009

PUBLISHER Sworn and subscribed to before me this 16th day of March, 2009

Notary Public

My commission expires February 09, 2013

(Seal)



This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL

MARCH 15, 2009

بة م م ا

EverQuest Energy Corporation, 10 Desta Drive, Suite 300-E, Midland, Texas 79705, is filing form C-108 (Applica tion for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a commercial saltwater disposal well. The proposed well," a re-entry of a previously plugged and abandoned wellbore. the Lovington Deep Yates State #1, API# 30-025-29702, is located 330 feet FSL and 990 feet FEL of Section 36 Township 16S, Range 35E of Lea County, NM. Produced water and typical oilfield fluids will be disposed into the Devonian formation at depths below 12,500' feet at a maximum surface injection pressure of 2000 psi and a maximum rate of 5000 BWPD. Any affected party who has an objection to this application must give written notice to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15-days of this notice publication tion date. Additional information can be obtained by contacting Terry M. Duffey at (432) 686-9790. #24798

the second se

02107761 00027485 TERRY M. DUFFEY EVERQUEST ENERGY CORPORATION 10 DESTA DR.,STE. 300-E MIDLAND, TX 79705

Advertising Receipt

Hobbs Daily News-Sun

201 N Thorp P. O. Box 936 Hobbs, NM 88241

Phone: 575-393-2123 Fax: 575-397-0610

EVERQUEST ENERGY CORPORATION	Cust #: 02107761
TERRY M. DUFFEY	Ad #: 00027485
10 DESTA DR.,STE. 300-E	Phone: (432)686-9790
MIDLAND , TX 79705	Date: 03/13/2009
	Ad taker: C2 Salesperson: 06

Sort Line: #24798		Classification	672		
Description	Start	Stop	Ins.	Cost/Day	Total
07 07 Daily News-Sun	03/15/2009	03/15/2009	1	29.35	29.35
AFF2 Affidavits (Legals)					6.00
BOLD bold					1.00

MARCH 15, 2009

EverQuest Energy Corporation, 10 Desta Drive, Suite 300-E, Midland, Texas 79705, is filing form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a commercial saltwater disposal well. The proposed well, a re-entry of a previously plugged and abandoned wellbore, the Lovington Deep Yates State #1, API# 30-025-29702, is located 330 feet FSL and 990 feet FEL of Section 36, Township 16S, Range 35E of Lea County, NM. Produced water and typical oilfield fluids will be disposed into the Devonian formation at depths below 12,500' feet at a maximum surface injection pressure of 2000 psi and a maximum rate of 5000 BWPD. Any **Payment Reference:**

Total:	36.35	
Tax:	2.43	
Net:	38.78	
Prepaid:	0.00	
Total Due:	38.78	$\Big)$

EverQuest Energy Corporation Lovington Deep Yates State #1 SWD Sect 36, T16S, R35E Lea County, NM

Area of Review - Affected Parties

EverQuest Energy Corporation Lovington Yates Deep State #1 - SWD Application

Notifications within 1/2 mile Area of Review

Name	Name2	Address	City	State	Zip	Туре
Chevron Midcontinent, LP		11111 S. Wilcrest	Houston	тх	77099	Oper
Chevron USA Inc.		PO Box 1635	Houston	тх	77251	MLO
David H. Arrington Oil & Gas Inc.	Jennifer McPsters	214 W. Texas	Midland	тх	79703	Op/MLO
Apache Corporation	Land Administration	PO Box 27709	Houston	ТХ	77227	MLO
Commissioner of Public Lands	Nick Jaramillo	PO Box 1148	Santa Fe	NM	87504	SLO
Eidson Ranch	Arzell Sellers	PO Box 1286	Lovington	NM	88260	Surf Own

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All affected tracts within the notification area are NM State leases. All known Operators and/or Lessees or mineral owners, in the absence of an Operator or Lessee, were notified of the EverQuest Energy SWD application. State Of New Mexico Commissioner of Public Land records were used to determine the affected parties that became the subject of notification via Certified Mail through the USPS.

Certified:

Juffin Terry M. Duffey

President of EverQuest Energy Corporation 3 - 74 - 9

Date:











10 Desta Drive, Ste 300-E Midland, Texas 79705 (432) 686-9790 Voice (432) 682-3821 Fax





To:	OCD Environmental Bureau
From:	Terry M. Duffey $\mathcal{T}\mathcal{W}\mathcal{P}$
CC:	
Date:	3/23/2009
Re:	Commercial SWD Application

Please find enclosed our SWD application. We wish for this application to be given *Administrative Approval*. Do not hesitate to contact me for additional information, if needed.

Attachments

1

,

Jones, William V., EMNRD

From: Sent: To: Subject: Jones, William V., EMNRD Tuesday, April 07, 2009 11:13 AM 'Terry Duffey' RE: Disposal application from Everquest Energy Corp: Lovington Deep Yates State #1 30-025-29702 P/36/16S/35E Lea County

Oops – must wait till the 10th to release – to get the 15 days in...

From: Terry Duffey [mailto:tduffey@everquestenergy.com]
Sent: Tuesday, April 07, 2009 10:22 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from Everquest Energy Corp: Lovington Deep Yates State #1 30-025-29702
P/36/16S/35E Lea County

The surface owner is the Eidson Ranch.

The last reported Devonian production from this well was in 1993. At that time the watercut was too high to support the lifting cost associated with the high volume of water that accompanied the oil and the well was subsequently plugged. I understand that oil prices are higher at this point in time but the investment costs to reactivate the Devonian as a producer are also. Ditto on operating costs. As a producer I would not be able to justify the investment cost to make this a producer AND the cost to find a suitable SWD well to dispose the high volume of produced water.

As far as deepening this wellbore to dispose into the formation below the possible oil attic I think the natural fractures of the Devonian would negate the structural benefit of doing so. If this well were located on the top of the structure the "attic oil" concept may have more credence. On these type of Devonian traps, that are heavily fractured, the water seems to travel up the fractures preferentially regardless of where the well lies on the structure. In other words, injecting lower on the structure does nothing to change the producing oil cut – it will be somewhere between 1-3% regardless.

My experience with this comes from the Mobil State COM #1 well (API 30-025-23762) that produces in the Shoe Bar East field approximately 1 mile to the northeast. This well rests at the <u>highest</u> point on the Devonian structure. Oil cut is 2-3%. Disposal goes to the State L 736 #1 (API# 30-025-23937) located downdip on the structure. If the proposed SWD location was situated on the top of the Devonian structure the possibility of reactivating the well as an attic oil producer may be more attractive. Finally, the fact that the Devonian structure only accumulated 222,000 BO during its producing life (as compared to over 2 million BO at Shoe Bar East; Devonian) gives a much smaller oil target to begin with...too small for the inherent cost and risk from my perspective.

Terry M. Duffey 10 Desta Drive, Suite 300-East Midland, Texas 79705 432-686-9790 ofc 432-682-3821 fax



Dominating World Oll ... One Well at a Time

To: tduffey@everquestenergy.com

Cc: Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Brooks, David K., EMNRD; Kautz, Paul, EMNRD **Subject:** RE: Disposal application from Everquest Energy Corp: Lovington Deep Yates State #1 30-025-29702 P/36/16S/35E Lea County

Thanks Terry;

Anyone noticed in this application or concerned after reading the newspaper notice could protest within the 15 days or before the permit is granted – so the 15 days is only a minimum before which the permit cannot be granted.

The letter granting easement in the application package was referencing SWD-256 which is a long way from this location. I don't need a copy of this anyway, so don't worry about this – I have your statement below. Sounds like this is SLO surface and minerals end Eidson Ranch is just the surface lessee?

Understand your need for a disposal candidate to enable you to produce other Devonian wells, but here we have to look only at "waste" issues in this well or in this "lease". The Devonian does seem depleted based on the decline curve and from your maps showing the lack of a good trap, so this supports the contention that it is ultimately depleted. However, as you know, abandonment economics change when costs (capital and operating) and revenue (production and prices) change – and the upper Devonian in this well (and surrounding this well) likely does have residual oil that will have less chance of recovery by turning this upper Devonian into a disposal.

Another option it seems (and others have done this) is to drill out below the casing and inject below the previously producing perforations in the clearly water saturated portion of the Devonian – please tell me what you think of the merits of this considering the type of reservoir drive and geologic structure?

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

From: TDuffey@EverQuestEnergy.com [mailto:tduffey@everquestenergy.com]
Sent: Monday, April 06, 2009 5:23 PM
To: Jones, William V., EMNRD
Subject: re: Disposal application from Everquest Energy Corp: Lovington Deep Yates State #1 30-025-29702
P/36/16S/35E Lea County

I have a SWD Easement from the SLO. Yes, they do realize it entails a re-entry of this P&A'd well. Please notice that I included the letter granting the easement in the application package. I am waiting to consumate the Easement agreement with the SLO pending securing the SWD permit from the OCD (Chicken and the Egg...). They have given me until early May to act in that regard so I am hoping for an administrative approval.

As far as Devonian production (vs. injection) there just isn't any place to go with the produced water (probably on the order of 1000 bwpd) for disposal in the surrounding area. I am looking at some re-entry candidates back into the Devonian in the Shoe Bar East field, about 1 mile northeast of this proposed SWD well permit application. The water would be piped to this location for disposal. The economics are tough as a re-entry into the Devonian is laden with high mechanical risk because of the plugging configuration of the welbore candidates. Please feel free to call me if you would like to discuss any of this in more details.

Would you please let me know when the period for affected parties to protest the application has lapsed. I need to know how I am progressing with regard to the SLO SWD Easement. Thanks.

Subject: Disposal application from Everquest Energy Corp: Lovington Deep Yates State #1 30-025-29702 P/36/16S/35E Lea County

Hello Mr. Duffey: (Please reply by April 10, 2009)

Thank you for this application for commercial disposal into the Devonian:

- 1) Our records (which could be incorrect) show the surface and minerals to be owned by New Mexico (State Land Office). Is the State Land Office aware of your intent to use this Plugged well for Commercial disposal into the Devonian? Do you have agreements from the SLO as to surface and downhole use of this well?
- 2) Since the Devonian has produced in this well and was abandoned during a period of lower oil prices do you believe reopening the Devonian for production would be un-economical?

Any permit issued would be only for disposal of oilfield wastes and only for those classified as UIC Class II wastes: http://www.epa.gov/ogwdw/uic/wells_class2.html

Disposal of oilfield wastes associated with Petroleum Refining will need a Class I permit issued by the OCD's Environmental Bureau (Jim Griswold).

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

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This inbound email has been scanned by the MessageLabs Email Security System.

Injection Permit Checklist (7/8/08) SWATZ WEX R. Case 6 VINETON Roop Yster STate # # Wells ____ Well Name: API Num: (30-) 025-29 702 8/87 New/Old: New ___ Spud Date: Unit P Sec. 36 Tsp 165 Rge 35E County LEA Footages 330 FSU 990 FEI DUFFEY Every Grandian Contact Terry EVERQUEST Operator: OGRID: 212929 RULE 40 Compliance (Wells) (Finan Assur) 79705 DESTA DRIVE, STE300. EAST, MIDL Operator Address: 0 AND AED Current Status of Well: Planned Work to Well: Planned Tubing Size/Depth: Sizes Setting Cement **Cement Top and Determination** Method Sx or Cf Hole ...Pipe Depths 13318 CIRC 42 450 451 Existing Surface 4/8 CIRC 600 5150 0 2 q Existing Intermediate /4 BOTH STO 683 13000 RC Existing Long String E Total Depth _ DV Tool 10584 Open Hole Well File Reviewed Elogs in Imaging File: Diagrams: Before Conversion After Conversion intervals: Depths Producing (Yes/No) Formation POOL SHOEBAR Above (Name and Top) Above (Name and Top) ъP DE Injection.... 2586 DE L Max. WHIP Interval TOP: Injection...... 12800 interval BOTTOM: Below (Name and Top) ieted tale? Salt Depths 2100 3200 Sensitive Areas: Capitan Reef Cliff-House Potasti Area (H-111-P Sound 42:08 Wells(Y/N) Affirmative Statement Fresh Water: Depths: aptetel? Salt Water: Injection Water Types: Commerci ABO Analysis? Injection Interval.....Water Analysis: Hydrocarbon Potential 4 MILLES SW of Tours Notice: Newspaper(Y/N) _Surface Owne lineral Owner(s) RULE 701B(2) Affected Parties: _ Area of Review: Adequate Map (Y/N) and Well List (Y/N) Ψo Active Wells Num Repairs Producing in Injection Interval in AOR ..P&A Wells ____ Num Repairs ___ All Wellbore Diagrams Included? Questions to be Answered: Parit Oully. KELVIDS Gy i cha own. Required Work on This Well: SPZ WC Per Request Sent Reply AOR Repairs Needed: Reply: Request Sent Request Sent Reply:

SWD_Checklist.xls/List *

Configures K-31-105-36E B-31-165. HTOKA 11,660 11460)-CAESA 12,60 11,740 MISS 12,570 12070 NODFORD 12,790 DEV 13,465 12,940 B-31-165-30E 1-31 A 2200