TYPE SWD

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKL

WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANT Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Single Comming	nultaneous Dedication] ol/Lease Commingling] ease Measurement] • Expansion]
[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Sin [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Po	ol/Lease Commingling] ase Measurement] Expansion]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Po	ol/Lease Commingling] ase Measurement] Expansion]
	Expansion]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Le	·
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance	rroccol :
[SWD-Salt Water Disposal] [IPI-Injection Pressure Inc [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive	
1 con-quainted chinanted on Recovery certification [FFR-Fositive	SW5 1664.
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]	Amended Application
[A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	Amended Application [Penn Strown only] Greenwood Pres Graybo
	Flam O
Check One Only for [B] or [C]	Greenwood Prestrando
[B] Commingling - Storage - Measurement	OLM Fed. Com. Well No. ?
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐	
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Reco	30-015-22601
□ WFX □ PMX 🔀 SWD □ IPI □ EOR [PPR Raywestall operat
[D] Other: Specify	
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \(\Box\) Do	
[A] Working, Royalty or Overriding Royalty Interest Owne	rs — ——————————————————————————————————
[B] Offset Operators, Leaseholders or Surface Owner	
	(A)
[C] Application is One Which Requires Published Legal No	otice
[D] Notification and/or Concurrent Approval by BLM or SI U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	Lo
[E] For all of the above, Proof of Notification or Publication	n is Attached, and/or,
[F] Waivers are Attached	•
	was the second
[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRE	ED TO PROCESS THE TYPE
OF APPLICATION INDICATED ABOVE.	
[4] CERTIFICATION: I hereby certify that the information submitted with th	is application for administrative.
approval is accurate and complete to the best of my knowledge. I also understand the	
application until the required information and notifications are submitted to the Divis	ion.
Note: Statement must be completed by an inglividual with managerial and/or s	upervisory capacity.
	A NOTE OF THE STATE OF THE STAT
The state of the s	w Westall Operating, Inc. 1/05/17
Print or Type Name Signature Title ben@sosco	Date on the control of the control o
e-mail Address	



January 5, 2017

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

Attn: Mr. David Catanach, Director

Re: Application of Ray Westall Operating, Inc. to permit for salt water disposal in the Greenwood Federal SWD Well No.1 (aka Greenwood (P-GB Unit No.1), API No. 30-015-22601, located in Section 27, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to covert for disposal, the Greenwood Federal No.1. Subsequent to approval of this application, Ray Westall will submit a sundry to change the name of the well to the Greenwood Federal SWD No.1.

Ray Westall Operating seeks to optimize efficiency, both economically and operationally, of its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the January 4, 2017 edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application package. This application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on state land and minerals and a copy of this application has been submitted to the Bureau of Land Management, CFO Oil and Gas Division.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner SOS Consulting, LLC

Agent for Ray Westall Operating, Inc.

Cc: Application attachment and file

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

ŀ.	PURPOSE:	Salt Water Disposal and the application qualifies for administrative approval.
11.	OPERATOR:	Ray Westall Operating, Inc. Ogrid - 119305

ADDRESS: P.O. Box 4, Loco Hills, NM 88255

CONTACT PARTY: Donnie Mathews (575) 677-2372

Agent: SOS Consulting, LLC - Ben Stone (903) 488-9850

- III. WELL DATA: All well data and applicable wellbore diagrams are ATTACHED hereto.
- IV. This is not an expansion of an existing project.
- V. A map is ATTACHED 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. A tabulation is ATTACHED of data on all wells of public record within the area of review which penetrate the proposed injection zone. (2 AOR wells penetrate the subject interval 1 P&A penetrates.) The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. The following data is ATTACHED on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. 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. Appropriate geologic data on the injection zone is ATTACHED 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. The well may be acidized to clean perforations and formation wall w/ 15% HCl w/ up to 5000 gals/1000'.
- *X. There is no applicable test data on the well however, any previous well logs have been filed with the Division and they need not be resubmitted. A log strip of subject interval is ATTACHED.
- *XI. State Engineer's records indicate there are NO water wells within one mile the proposed salt water disposal well.
- XII. An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. "Proof of Notice" section on the next page of this form has been completed and ATTACHED.

 There are 8 offset lessees and/or operators plus state minerals within one mile all have been noticed.
- 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: Ben Ston	e /	TITLE: SOS Consultin	g, LLC agent / consultant for l	Ray W	estall Operating, Inc.
SIGNATURE:	Sen La		DAT	Γ Ε :	1/05/2017
E-MAII ADDRESS	- 0		·	· -	

E-MAIL ADDRESS: ben@sosconsulting.us

* 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:

III. WELL DATA - The following information and data is included and ATTACHED:

- 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 pursuant to the following criteria is ATTACHED.

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.

C-108 - Items III, IV, V

Item III - Subject Well Data

- 1. Wellbore Schematic PROPOSED
- 2. Wellbore Schematic CURRENT

Item IV - Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile Radius of the subject well and which penetrate the proposed interval.

Item V - Area of Review Maps

- 1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
 - 2. One-Half Mile AOR Map

All Above Exhibits follow this page.



BRNT SHL: 11797

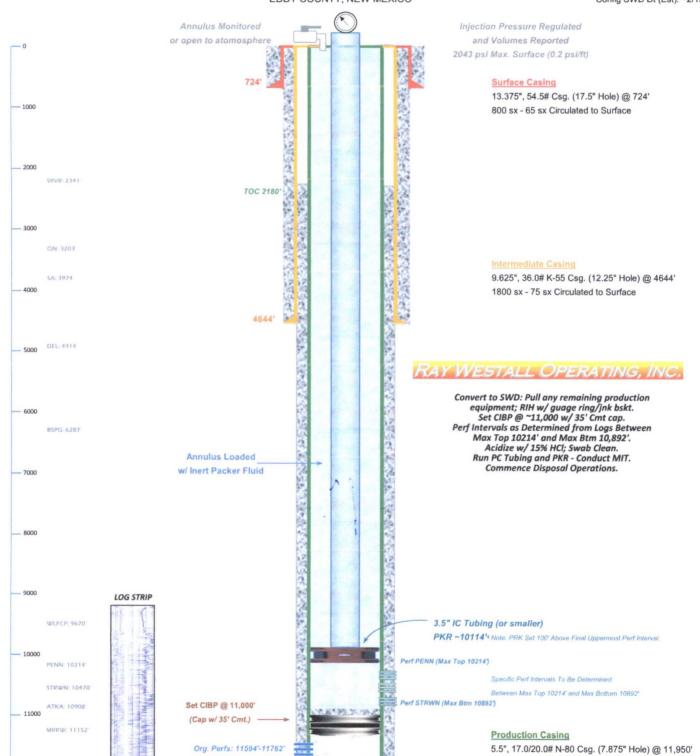
12000

WELL SCHEMATIC - PROPOSED Greenwood Federal SWD Well No.1

SWD; Penn-Strawn (PROPOSED)

API 30-015-22601

1980' FSL & 660' FWL, SEC. 27-T18S-R31E EDDY COUNTY, NEW MEXICO Spud Date: 12/06/1978 Config SWD Dt (Est): ~2/15/2



11,950"

DTD @ 11950'

2300 sx - TOC @ 2180' by Temp

CURRENT WELLBORE DIAGRAM

Chevron U.S.A. Inc. Wellbore Diagram : GNWD P-G 1C

		. Wellbore Diagram		
ease: DEU EUNICE FMT		enwood pre-grayb 1 com		
ecation: 1980FSL660FWL	Sec.: N/A		Bik:	Survey: N/A
County: Edby St.: New Mex	mey: Eddy St.: New Mexicol Rame: EQ2569			
Section; E031	Township: 27	7		Range: Sole
Surrent Status: ACTIVE			Dead Man Anc	iors test bate: 08/04/2
Directions:				
	350 @ (11	String Quantity (Top-Bottom) (15-11047) J-55 2.875 OD/ 6. (047-11050) Seal Assembly 2. (1050-111500) J-55 2.875 OD/ 6. 2 Casing (Top-Bottom Depth) 724) Wellbore Hole OD-17.500 724) Cement (behind Casing)-724) H-40 13.625 OD/ 88.20N 64644) Wellbore Hole OD-12.2 4644) Cement (behind Casing) 4644) K-55 9.625 OD/ 36.00N 2tion Casing (Top-Bottom Depth) -11950) Wellbore Hole OD-8 0-11950) Wellbore Hole OD-8 0-11950) N-80 5.500 OD//20.00N 90-11775) Producing Interval (90-11122) Perforations-Open 94-11775) Perforations-Open 94-11950) Plug - Cement-	50# T&C External Upse 875 OD- 6.50# T&C External Up Desc 0- Round Short 12.375 ID pith! Desc 500- Round Short 8.921 ID th! Desc .7500- Ing)- Unknown Thread 4.7	9861 2.441 10 2.347 12.219 Drift- 8.784 Drift- 78 ID 4.853 Drift-
		designation of the last special party and the la		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, TH
Weil Depth Datum: Kelly 6	waning	Elevation (MSL): 3629.00	Correction F	85091: 15.0U
est Updated by: trij		Date: 09/08/2014		

Form C-108 Item VI - Tabulation of AOR Wells

	Top of Proposed PENN Interval 10,214			2 W	ells Pene	trate Pr	oposed Interv	al.	,
API .	Current Operator	Well Name	Well No.	Туре	Lease	Status	ULSTR	Depth	Plug Dt.
Subject Well			 स्टब्स् स्ट	7,5-		ii ii			
30-015-22601	[119305] RAY WESTALL OPERATING, INC	GREENWOOD PRE GRAYBURG UT FED COM	#001	Gas	Federal	Exp TA	L-27-18S-31E	12220	
2.00				4. 74.			RENT and PROP		bore Diagrams.
Section 27 Wells				4	(F)	1 / 4		-44.5 - 151	
30-015-32616	[4323] CHEVRON U.S.A.INC	PRINCIPLE FEDERAL	#001	Oil	Federal	Active	C-27-18S-31E	6395'	
30-015-10592	[26478] SOUTHLAND ROYALTY CO	HINKLE F	#003	Oil	Federal	P&A-R	C-27-18S-31E	3976'	12/13/1992
30-015-05616	[4323] CHEVRON U S A INC	GREENWOOD PRE-GRAYBURG UNIT	#004	Oil	Federal	Active	D-27-185-31E	5250'	
30-015-10594	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#005	Oil	Federal	Active	D-27-185-31E	3948'	
30-015-30680	[4323] CHEVRON U S A INC	GREENWOOD FEDERAL COM	#002	Gas	Federal	P&A-R	D-27-18S-31E	12000'	8/19/2014
1				,	<u> </u>		Si	ee attached	i P&A diagram.
30-015-32894	[4323] CHEVRON U S A INC	PRINCIPLE FEDERAL	#004	Oil	Federal	Active	E-27-18S-31E	6367'	
30-015-10593	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#004	Oil	: Federal	P&A-R	E-27-18S-31E	3966'	1/15/2014
30-015-10111	[4323] CHEVRON U S A INC	HINKLE FEDERAL	#001	Oil	Federal	P&A-R	E-27-18S-31E	5162'	1/5/2014
30-015-05617	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#001	Injection.	Federal	Active	F-27-18S-31E	5188'	
30-015-32843	[4323] CHEVRON U S A INC	PRINCIPLE FEDERAL	#002	Oil	Federal	Active	F-27-18S-31E	6350'	
30-015-31615	[4323] CHEVRON U S A INC	GREENWOOD PRE-GRAYBURG UNIT	#014	Oil	Federal	Active	I-27-18S-31E	13958'	
Ellenbu	rger (Ordovician) Perfs: 13,750'-13,790' ; 13.375" (17.	5" hole) @ 651' w 530 sx - circ.; 9.625 (12.25" hole) @	4028' w/ 13	00 sx - circ.;	7.0" (8.75'	' hole) @			
20.015.22545	[4333] CUTUPON II C A INC	COLLINATOR DOL CONVOLUDGIANIT		•					3958' w/ 280 sx.
30-015-32515 30-015-25815	[4323] CHEVRON U S A INC	GREENWOOD PRE-GRAYBURG UNIT	#016	Gas	Federal		J-27-18S-31E	9976'	
	[265378] GEORGE A CHASE IR DBA G AND C SERV.	HINKLE B FEDERAL	#020	Oil	Federal	Active	J-27-18S-31E	4300'	· ·
30-015-10607	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#006	Oil	Federal		K-27-185-31E	3978'	
30-015-10760	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	Federal		L-27-185-31E	3953'	1/1/1900
30-015-10106	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#009	Oil			L-27-18S-31E	5120	1/1/1900
30-015-21273	[265378] GEORGE A CHASE IR DBA G AND C SERV.	HINKLE B FEDERAL	#003	Oil	Federal		M-27-18S-31E	3600'	
30-015-22363	[265378] GEORGE A CHASE JR DBA G AND C SERV.	HINKLE B FEDERAL	#010	Oil	Federal		M-27-18S-31E	3650'	
30-015-20982	[265378] GEORGE A CHASE IR DBA G AND C SERV.	HINKLE B FEDERAL	#002	Oil	Federal	-	N-27-18S-31E	3643'	
30-015-10737	[265378] GEORGE A CHASE IR DBA G AND C SERV.	HINKLE B FEDERAL	#017	Oil	Federal	Active	N-27-18S-31E	3984	·
Castley 20 Maile									
Section 28 Wells		DDE ONCADD WELL	W004			,		20501	4 (a) (a non
30-015-05627	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil			A-28-18S-31E	3868'	1/1/1900
30-015-20172	[196069] MOMENTUM OPERATING CO INC	GULF	#001	Oil	Federal	P&A-R	A-27-18S-31E	3927'	1/28/2010



Form C-108 Item VI - Tabulation of AOR Wells (cont.)

Section 28 Wells (cont.)

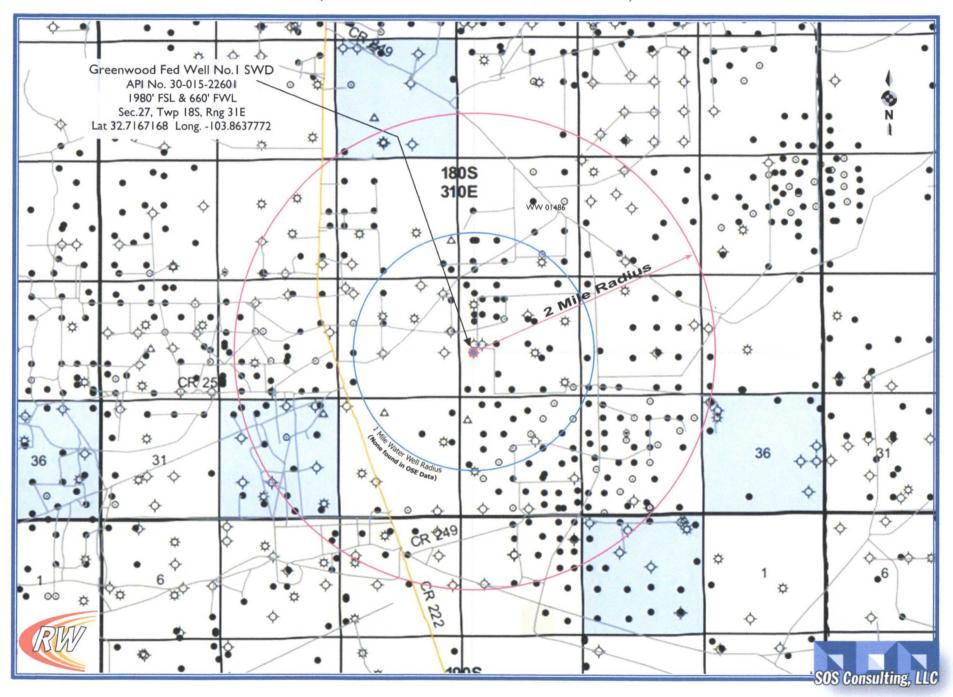
30-015-20196	[196069] MOMENTUM OPERATING CO INC	GULF	 .:	#002	Injection	Federal	Active	H-27-185-31E	- 3935'	
30-015-10288	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL		#002	! Injection	Federal	P&A-R	H-27-185-31E	4800'	1/1/1900
30-015-05626	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL		#00	Oil		P&A-R	I-27-18S-31E	3940'	1/1/1900
Section 34 Wells		*								
30-015-21697	[265378] GEORGE A CHASE JR DBA G AND C SE	RV. HINKLE B FEDERAL		#008	Oil	Federal	Active	C-34-18S-31E	4493'	
30-015-21613	[265378] GEORGE A CHASE JR DBA G AND C SE	IV. HINKLE B FEDERAL	•	#005	Oil	Federal	Active	D-34-18S-31E	3634'	

SUMMARY: 2 wells penetrate proposed disposal interval. 1 P&A.



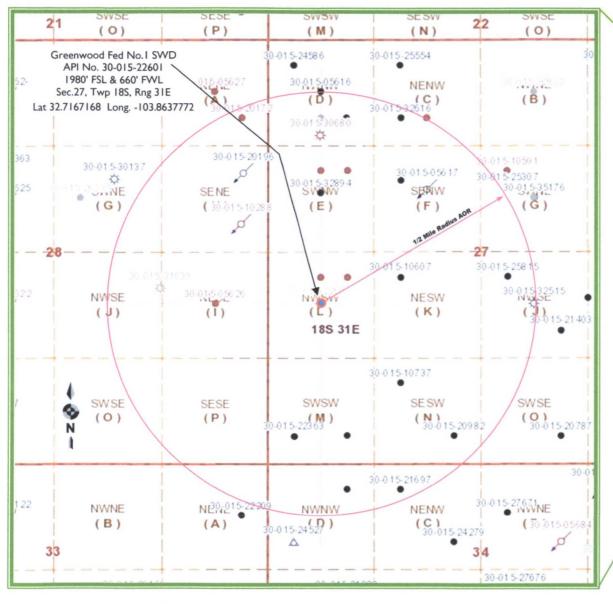
Greenwood Fed Well No.1 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



Greenwood Fed Well No.1 SWD - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)



9.7 miles Southeast of Loco Hills, NM





Eddy County, New Mexico



RAY WESTALL OPERATING, INC.



C-108 ITEM VI – AOR WELL INFORMATION

Plugged Well Schematics

PLUGGED WELL SCHEMATIC

Greenwood Federal 27 Well No.2

API 30-015-30680

1202' FNL & 660' FWL, SEC. 27-T18S-R31E EDDY COUNTY, NEW MEXICO

Spud Date: 9/29/1999 P&A Date: 8/27/2014

WELL PLUGGED BY CHEVRON USA INC. P&A Marker <PLUGGING ITEMS LISTED LEFT> G 1 3634 PLUGS: Shoot Sqz Hole @ 5 Sqz & Circ. to Sur Shoot Sgz Hole @2850' Sqz w/ Cmt to 272 28091 Shoot Sqz Hole @ 4935 DEL: 4785 Sqz w/ Cmt to 4785' Shoot Sqz Hole @ 6308' Sqz w/ Cmt to 6148' Shoot Sqz Hole @ 9790' Sqz w/ Cmt to 9570' Circulated Hole w/ Plugging Mud **Spot Cmt Plug** 10815'-10615' CIBP @ 11130' Cap w/ 35 sx Cmt. CIBP @ 11630' ATKA Perfs: 11204'-11224' Cap w/ 35' Cmt.

CIBP @ 11850'

Cap w/ 35' Cmt. Formation Fluid

12000'

<PRE-P&A EXISTING ITEMS LISTED RIGHTS

Surface Casing

13.375", 48.0# Csg. (17.5" Hole) @ 549' 470 sxs - Circulated to Surface

Intermediate Casing

8.625", 32.0# csg. (11.0" Hole) @ 2809' 855 sx + Celloflake - Circulated to Surface

<P&A SUBSEQUENT SUNDRY>

Fum \$160-5 (August 2007)	Charles CLATCS	000	Artesta	TORN APPROVED
(August 2007) DE	UNITED STATES PARTMENT OF THE IN THE AU OF LAND-MANACH HOTTOES AND REPOR	TERIOR EMENT		0000 NO - (04-(1.0) Expert July 31, 31-0
SUNDRY	NOTICES AND REPOR	TS ON WELLS		1 Loss Sould No NWLC029002B
	s form for proposals to 4 L. Use form 3160-3 (APD	for such propessis.		4. U'Indan, Alleston or Tirtle House
SURMIT IN THE	PLICATE -Other Instruct	lons on reverse able.		7 If Lind of Chi. Agreement, Nature and/or No. SAM MICO.
That areas	_		_	If their floor and file GREENANCOU PRECINAL COMF2
2 Nanad Star Well (200 2 Nanad Operate CHEVRON USA INCORPORE	Carpor C	SADA H MINITO	-	1 API NO No. 30-015-30980-00-61
	THE PART OF THE		N	III Full and First, or Explosiony SHACART
15 SMITH ROAD MICKAND TX 79705		Phr 675-363-0401 Fx 975-361-6679		
F Looken-CRoll: (Favigo Sec.) Sec. 27 T18S RD1E NWNW 1	E. H. or Samp Tocoption COFM, BOFMA.			If English that, will four EDDY COUNTY, NM
12 CRICK APP	ROPRIATE BOWEST TO	INDICATE NATURE OF	NOTICE R	EPORT, OR OTHER DATA
TYPE-OF SUBMISSION			F ACTION	
	D Aceter	Q Peges		ries Gunfferenzet D Water Shar-Off
Distance of Beauting	() Alter Casing	Q Fruiture Dear	Q Restur	orium () Sort Integrity
D Find Abandonma Nation	Charge Plans	New Construction Play and Ahander		cority Abandon
13. Disposite Program or Complete V for program or Complete V for program or to desper, detection in the Disposite V for the Complete V for the Co	of magnitude (☐ Plug Back death, recluding extraored state are subscribed instance and need for the form with Bi. Mill the it is mid-july computation or to ben't after all responsibles, such		proposed week will approximate disease framed critical flaging still perform modern and promo development persons but for 10th which to 10 days may be more at a from 3 10th 4 shall for filled under my been framed at from 3 and the operation has my been framed and the operation has
CHISVRON USA INC PROPOSI 1 CLEAN LOCATION TEST / 2 MIRRO PER GORNA FIG. NO 2 MIRRO PER GORNA FIG. NO 2 MIRRO PER GORNA FIG. NO 5 ET CORP (9 11.55 AND C 6 MIX 15 SEG CLASS C CEMENT III 9 PERF § 500 CHISVA SEG 10 CUT OF WELLINGANIE 11 MINOR PER GORNA FIG.	NOHORS, PREP WELL OP AND 2 YES HANDLE TUBBIS THE AND THE LID BIS THE AND THE RECULATE WELL OF THE AND SHOT ON TO I SOUDOWERS CSD LE KIS CLASS C CEMENT I OCHMENT TO SHIFT ACC. ANCHORS AND CLEAR TOTAL WELL OF THE AND SHOT OF THE ANCHORS AND CLEAR TOTAL WELL OF THE ANCHORS AND CLEAR T		XER AND I	ATTACHED ACCUPATION OF APPROVAL
4	uncolled to APMSS for pro-		ell information the Cartilles den 2001a (1	
Name Proced CONCY &	MUNICO	Cox PERM	TTING SPE	CIALIST
Span (forec)	THE SPACE FO	R FEDERAL OR STATE	2016	114
ACCEPT	ED	DAMES A	AMOS GORY PET	
Chevron USA INC. 1616 W. Bender Blvd. Hobbs, NM 88240		** BLM REVISED ** BL		
H0005, NM 88240				
RE: NMLC0293928	Greenwood Fed	leral 27-2		
	60' FWL, Sec. 27.			
Eddy County, 1	lew Mexico			
Approval is subject to t	he following cha	nges and standard	Conditi	ions of Approval:
				1/2" casing instead of the 5-1/2". W
prior to start.	onn 3100-37 021	0 17 10 77, 10011	ance w. 2	gr casing in results the a tyr. v
	ated @ 11630', v	with 35" Class H ce	ment ut	silizing dump bail. Or spot 25 sack
rement. 6. Utilize Class H ceme	nt			
Add plugs: Spot Class I	cement plue fro	m 10815'-10615'	(Top Str	awn)
Perf @ 9790	y, sqz Class H cer	ment plug to 9570	(Top W	rolfcamp). WOC tag ne Spring). WOC tag
7. WOC tag				
Add plugs: Perf @ 493	5', sqz Class C cer	nent plug to 4785	(Top De	elaware). WOC tag
8. Perf @ 2850', sqz Cl	ass C cement plus	g to 2720'.		
Add plugs: Perf @ 200	D', sqz Class C cer			
9. Perf @ 550' instead		Jones on 175 (op er 30	and the reli
If any questions, conta		75,714,5909		
n any questions, conta	L. Will Million (# 3)	3-234-3909.		
D-	aduction			

Production Casing

5.5", 17.0# Csg (7.875" Hole) @ 12000' 515 sx Cls H w/ Bentonite Gel - TOC @ 9600' by Calc.

MRRW Perfs: 11708'-11772' and 11862'-11874

DTD @ 12000'

PBTD 11850'

Drawn by: Ben Stone, 11/03/2016

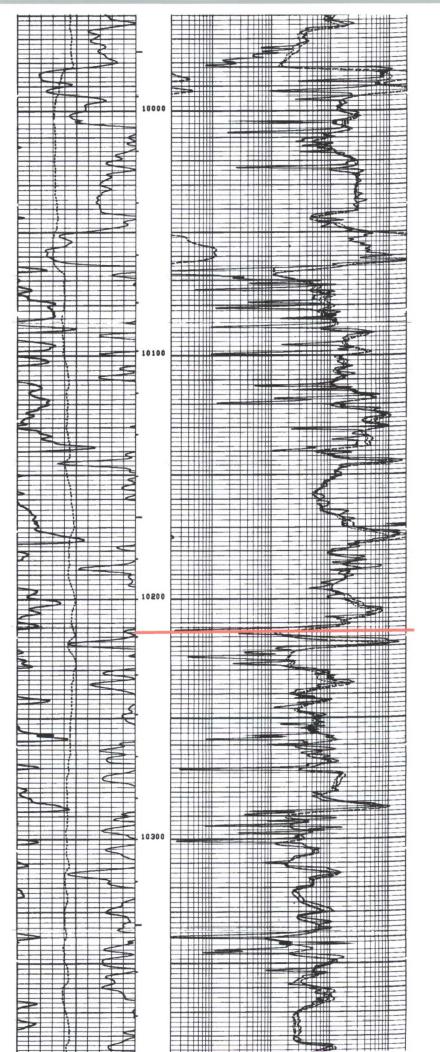
C-108 ITEM X - LOGS and AVAILABLE TEST DATA

A log strip from subject well is attached.

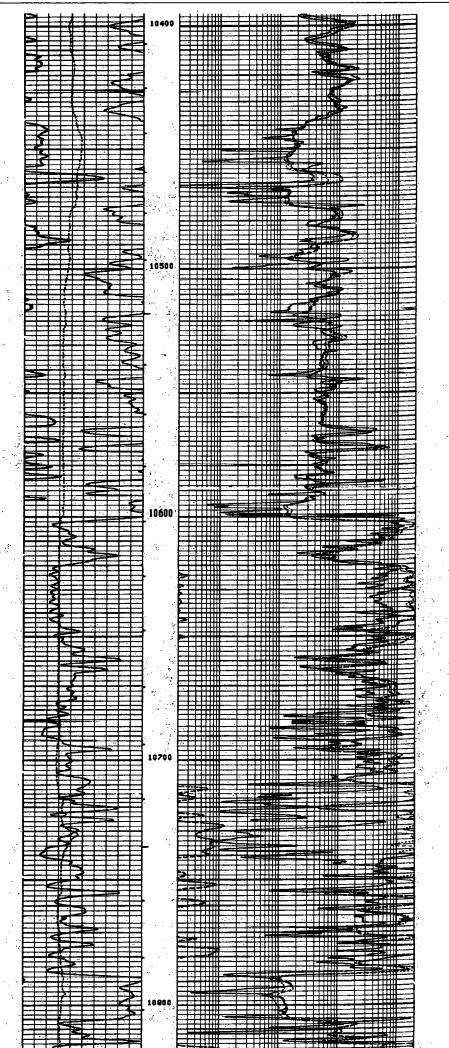
LOG STRIP FOLLOWS

PAGE 1 HEADER

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lun No.	ONE TWO	Silitari Political	I SCALE CHANGES	
Bervice Order No. Fluid Level Galinley, PPM CL.	59458 FULL	O(MID REPORT)	Type Log Depth	Scale Up Hole Scale Down Ho
EQUIPMENT DAYA Penel (DLP) Punel (SRP)	754 805	Tario 1 - 144 2 - 144 20 1 - 144 2 - 144		
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Sonde (DLS) Sonde (SRS) Lawer Bectrode (DLE)	987	1	+CENTERL NE OF	2" BRADERHEAD
Memorizer Panel Tape Recorder (TTR) Depth Encoder (DRE)			i septin 1	& CALIPER
Pressure Wheel (CPW) Controlizors Type Enter Spring, No.	ee CME-		I RUN Z - REPEA	
CALIBRATION DATA BKG, CPS	125 30	RALIZED	GO TO:	BOTTOM AT ER'S REQUEST.
OGGING DAYA Sensitivity	190 210 165 165 100 100			
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OTTOM HOLE TEMPERA Time Entering Hole : Time Bottom Reached	1130 1200 1230		7 () (4) (1)	
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Thermometer #2 Thermometer #3	96 %	ok ok	9F 1	
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All interpretations are opinions of prototions, and we shall out, out to shall out, out to sentential to company regulation to	amed on Information from electrical	or other measurement and me count	and do not recovered the arrival or	currectoms of any loter- or exponen incurred or Classe 4 of our Georgia
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Top of Proposed Penn Interval 10214'



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PAGE 4

Bottom of Proposed Strawn Interval 10892'

C-108 ITEM VII – PRODUCED WATER ANAYLSES

Item VII.4 - Water Analysis of Source Zone Water

San Andres
Delaware
Morrow

Item VII.5 – Water Analysis of Disposal Zone Water

Penn (Canyon)

Water Analyses follow this page.

Water Analysis - Disposal Zone



Water Analysis

Date: 2/24/2005

2401 Siviey, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 740-2293

Analyzed For

Соворану	7/e	वं विकास	C	purty	State
Westell	84	the GM1	Control of the State of the Sta	iddy	New Mexico
Sample Source			Sample #	•	1
Formation	Cenyon		Depth		
	1.050		=	60°F	1.051
pH Temperature ('F)	6.30 65		Reducing A	ullidos Igents	Not Tested Not Tested
Cations					••
Sociem (Calc)	***************************************	in Mg/L	9,518	in PPM	9,056
Celchim		In Mg/L	5,600	in PPM	5,328
Magnesium		in Algy's	240	in PPM	228
Soluable Iron (FE2)		in Mg/L	300.0	in PPM	285
Antons		*			le contempe de la con
Chaorides	• •	in Mg/L	24,000	in that	22,835
Sulfates		in Mg/L	2,000	In PPM	1,903
Bicarbonales		in Mg/L	186	in PPM	178
Total Hanthess (as CaCO3)		IN MED'L	15,000	in PPM	14,272
Total Dissolved Solids (Calc)		in Mg/L	41,844	In PPM	39,813
Equivalent NaCl Concentration	RÚ	in Mg/L	38,410	in PPM	36,546
Scaling Tendencies					e de la companya de l
Coloren Corbonate Dylar	•				1,628,464

Colcium Corbonate Ardex

Battur 500,000 Remote / 500,000 = 1.000,000 Possible / Above 1,000,000 Probable

"Calcium Sulfato (Gyp) Index

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Romarka

FAX 677-2361

Water Analysis - Source Water - SAN ANDRES

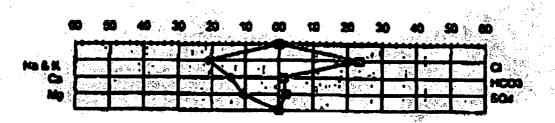
B J Services Water Analysis

Artest

District Laboratory (505)-746-3140

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- :,			Company of the		AND WO	· •	Remote

SON Plot



Water Analysis - Source Water - DELAWARE



Water Analysis

Date: 11-Jan-05

2798 West County Road, Hobbs NM 88240 Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Analyzed For	Sales and the	and the state of the state of the	The state of the	a durant continue the	and the second
4 - 41 41 412					54,000
Devon	Spu	d 16 State #	A CALL CONTRACTOR	Lee	New Mexico
Sample Source	Samp		Sample #	•).
Formation			Depth		
Specific Gravity	1.195	5-55 to 4 loc 12-51 197 Sp 4 49-49-		60°F	1.196
PH	5.96		S	ullides	Absent
Temperature (°F)	65		Reducing A	lgenta:	*
Cations					
Sodum (Celc)	9 g 80-00-06-00 name	in MDL	73,905	in PPM	61,880
Calcium		in Mg/L	34,000	in PPM	28,428
Megnesium		in Mg/L	5,040	In PPM	4,214
Solvable Iron (FE2)		in Mg/L	50.0	in PPM	42
Anions			*** * · · · · · · · · · · · · · · · · ·		
Chlorides		in Mg/L	188,000	in PPM	157,191
Sulfates		in Mg/L	650	in PPM	460
Bicarbonates		in Mg/L	78	in PPM	65
Total Hardness (as CaCO)) ⁻	In MgC	106,000	in PPM	68,629
Total Dissolved Solids (Ca	E)	in Mg/L	301,703	in PPM	253,260
Equivalent NaCl Concents	ation	in Mg/L	254,733	in PPM	212,988
Scaling Tendencies	•				
Calcium Carbonato Index	1 to man self-te	PAR - manus de 1916 Billion Bay 1 of 1 P	eatit 6 ⊲ aş	+ 3 4	454,720
		1,000 - 1,000 <i>0</i> 0	O Possible / Above	1.000.000 Probabl	
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Water Analysis - Source Water - MORROW

HALLIBURTON

CENTRAL OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY	New years		State	REPORT DATE DISTRICT	W02-128
SUBMITTED BY	Jim Trebe	<u> </u>	•		
WELL Plug COUNTY	- 8.0	DEPTH FIBLO		FORMATION	
BANPLE	Morrow Pros. Water				
Semple Temp.	64.5.0 - 1950 0.13 - 1981 1.040			**	
BRECIFIC GR.	4 .53			mpi	
MAGNESIUM CHLOREDE	6,300 mpl				
BULFATER BICAFERONATER BOLUBLE IRON	Mark may				
Sociam		0			
TDS OIL GRAVITY		F O		0 0	
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The report is the property of Hallburton Company and matter () any any part thereof ear a copy thereof is to be published of distinguished without first exacting the deprivation approved of laboratory management: is easy because, its until is the course of mander bushess approved by any person or exacting and employees thereof mounting and report bean Hallburton Co.

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analyst:	
40414	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN

C-108 - Item VIII Geological Data

The Pennsylvanian formation consists of similarly medium-grained carbonates, primarily dolomite and porous and permeable sandstone interbedded with shale and is generally 150 to 200 feet in thickness.

The Strawn consists of thin beds of isolated biohermal limestone and generally ranges from 200 to 500 feet thick and limited in areal extent. The porosity zones in these formations can be limited, averaging 2% to 9% but permeability can be fairly high.

The combined zones offer possibly exploitable porosity in the proposed injection interval located from 10,214 feet to 10,892 feet with some good porosity interspersed throughout the overall interval.

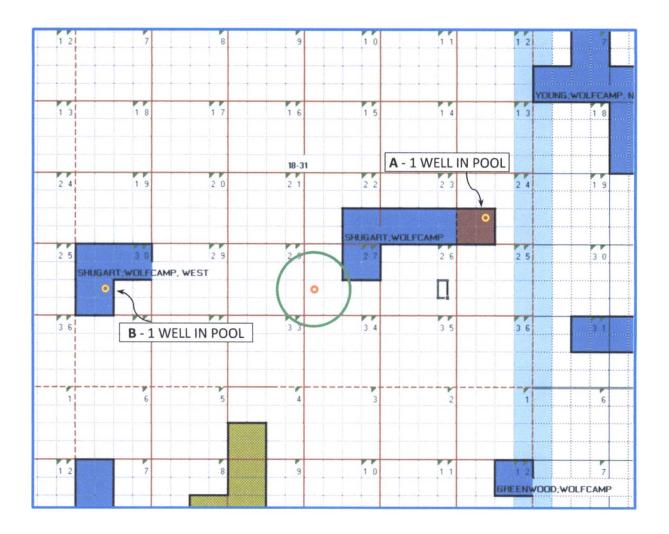
The Penn is overlain by the Wolfcamp and the Strawn is underlain by the Atoka. (See Pool Map and Data exhibit included.)

Fresh water in the area is generally available from the Santa Rosa formation (Capitan Basin). Based on State Engineer's records for a water well in Twp 18S, Rng 31E, groundwater is at a depth to water of 300 feet or greater.

There are no water wells located within one mile of the proposed SWD.

C-108 – Item VIII – Geologic Data SUPPLEMENTAL INFORMATION – POOL DATA

WOLFCAMP POOLS IN REGION



There are only 2 Wolfcamp completions in the vicinity; both are more than 2.5 miles from the subject well.

A – 1 WELL IN SHUGART WOLFCAMP POOL (56427): 30-015-34501 GERONIMO 24 FEDERAL #001; MEWBOURNE OIL CO.

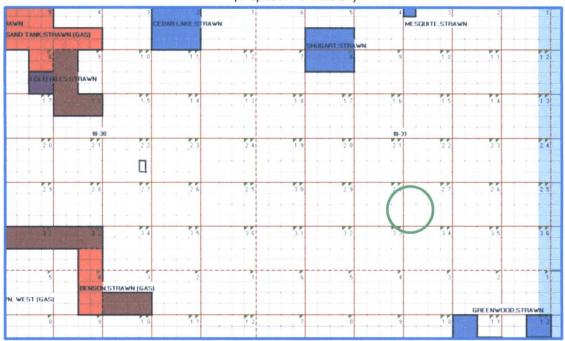
B – 1 WELL IN SHUGART WOLFCAMP WEST POOL (96686): 30-015-29429 WEST SHUGART 30 FEDERAL #009; DEVON ENERGY PRODUCTION CO.



C-108 – Item VIII – Geologic Data SUPPLEMENTAL INFORMATION – POOL DATA

STRAWN POOLS IN REGION

(Disposal Formation)



ATOKA POOLS IN REGION

(Below Disposal Formation)







C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.

Ben Stone, Partner SOS Consulting, LLC

Project:

Ray Westall Operating, Inc. Greenwood Fed No.1 SWD

Reviewed 11/03/2016

C-108 ITEM XI – WATER WELLS IN AOR

Office of State Engineer data indicated no water wells within one mile of the proposed SWD.



New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 21, 22, 27, 28, Township: 18S Range: 31

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied concerning the accuracy, completeness reliability, us suitability for any particular number of the data.

10/31/16 3:45 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

C-108 ITEM XI - WATER WELLS IN AOR

Depth to Groundwater

Office of State Engineer data indicate only one water well in the township with a depth of 300 feet.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a. water right file.)

(R=POD has been replaced,

O=orphaned,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

(quarters are smallest to largest) (NAD83 UTM in meters) closed)

(In feet)

POD Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water Well Water Column

CP 00849

3 1 3 35 18S 31E

608012 3618757* 300

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

PLSS Search:

Township: 185

C-108 ITEM XIII - PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

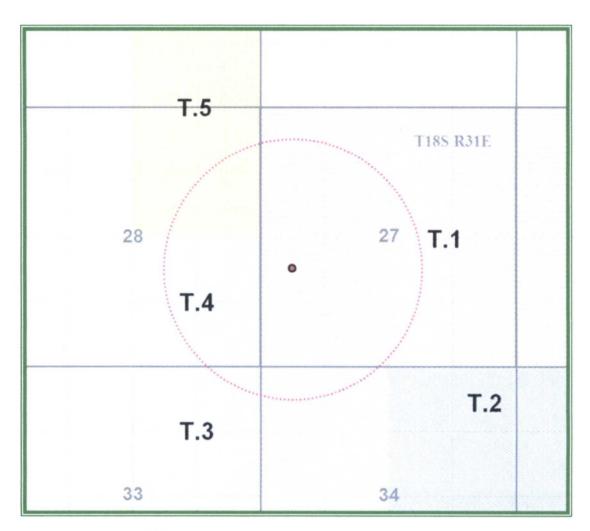
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Greenwood Fed Well No.1 SWD - Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)





RAY WESTALL OPERATING, INC.

LEGEND -

- T.1 NMLC-0029392B 18-31, Inc.
- T.2 NMLC-0029392A 18-31, Inc.
- T.3 NMNM-028790 Devon Energy Production, Energen Resources,
 Fidelity Exploration & Production
- T.4 NMLC-029390A Marathon Oil Company
- T.5 NMNM-012212 Devon Energy Production, Energen Resources,
 Fidelity Exploration & Production



C-108 ITEM XIII - PROOF OF NOTIFICATION INTERESTED PARTIES LIST

SURFACE OWNER

U.S. DEPARTMENT OF INTERIOR (USPS Certified Mail)
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

OFFSET OPERATORS (All Notified via USPS Certified Mail)

(Lessees to be notified where an operator is absent; per OCD rules NMAC 19.15.26.7, A. and 19.15.26.8, B.2)

Federal Leases NMLC-0029392B; NMLC-0029392A (T.1 and T.2 on plat)

Operators

- MOMENTUM OPERATING COMPANY 224 South Main St. Albany, TX 76430
- 2 CHEVRON, USA 1400 Smith Houston, TX 77002
- 3 GEORGE A. CHASE, JR dba G AND C SERVICE COMPANY P.O. Box 1618 Artesia, NM 88211

Federal Leases NMNM-028790; NMNM-012212 (T.3 and T.5 on plat)

Operator

MOMEMTUM OPERATING COMPANY P.O. Box 2249 Wichita Falls, TX 76307

Federal Lease NMNM-029390A (T.4 on plat)

Operator -

4 DEVON ENERGY PRODUCTION COMPANY, LP 333 W. Sheridan Ave.
Oklahoma City, OK 73102-5010

C-108 ITEM XIII - PROOF OF NOTIFICATION INTERESTED PARTIES LIST (cont.)

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy) 1220 S. St. Francis Dr. Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy) 811 S. First St. Artesia, NM 88210

5 BUREAU OF LAND MANAGEMENT (USPS Certified Mail)
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220



January 3, 2017

NOTIFICATION TO INTERESTED PARTIES via U.S. Certified Mail

To Whom It May Concern:

Ray Westall Operating, Inc., Loco Hills, New Mexico, has made application to the New Mexico Oil Conservation Division to convert for salt water disposal the Greenwood Federal (P-GB) Well No.1 and upon approval, will rename the well to Greenwood Federal SWD No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico.

Please note that this is a revision of a previously submitted C-108 for which you were also notified. Except for the removal of the Wolfcamp formation from consideration, all other details are the same as before. While there were no objections to the original C-108, OCD would not consider the Wolfcamp as a viable disposal candidate in the subject area.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about January 4, 2017

LEGAL NOTICE

In a REVISION of a previous application, Ray Westall, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its Greenwood Pre-GB Unit Well No.1. The well, API No.30-015-22601 is located 1980 FSL & 660 FWL in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Penn and Strawn formations through selected perforated intervals between a maximum applied for top of 10,214 feet to maximum depth of 10,892 feet and based on further log analysis. Maximum injection pressure will be 2043 psi with a maximum rate limited only by such pressure. The well will be renamed the Greenwood Federal SWD No.1.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset operator or lessee.

You are entitled to a full copy of the application. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

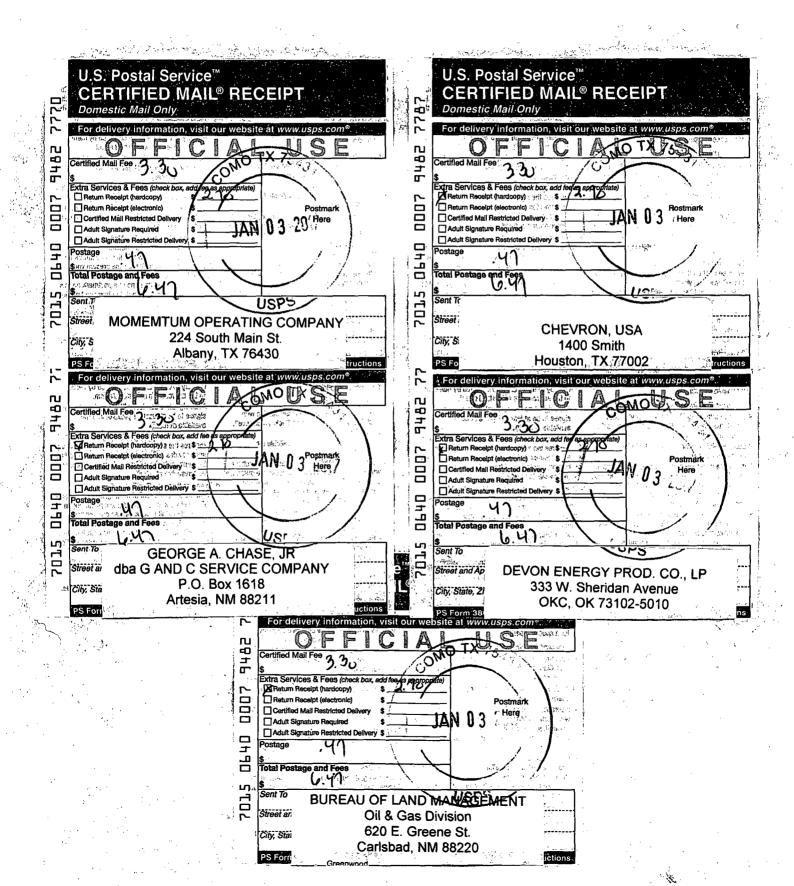
Ben Stone, SOS Consulting, LLC

Agent for Ray Westall Operating, Inc.

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)



C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

Legal Notice

In a REVISION of a previous application, Ray Westall, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its Greenwood Pre-GB Unit Well No.1. The well, API No.30-015-22601 is located 1980 FSL & 660 FWL in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Penn and Strawn formations through selected perforated intervals between a maximum applied for top of 10,214 feet to maximum depth of 10,892 feet and based on further log analysis. Maximum injection pressure will be 2043 psi with a maximum rate limited only by such pressure. The well will be renamed the Greenwood Federal SWD No.1.

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Published in the Artesia Daily Press, Artesia, N.M., Jan. 4 2017 Legal No. 24155.

The above is the "Proof Copy" sent from the Artesia Daily Press.

The affidavit of publication will be forwarded as soon as it is received.

C-108 - Item XIV

Proof of Notice

(Certified Mail Delivery Confirmation - USPS.com)

Ray Westall Operating, Inc. - Greenwood SWD No.1

	USPS Tracking®	SSI New Cornican)			
		*	Get Lany Tracking Updaten i Rgm op for My USPS		
Momentum	Tracking Number: 9144999944314852020300 On Tarce Updated Delivery Day: Wednesday, January 11, 2017	De	livered		
George Chase	Tracking Number: 9114999914354362020374 (Dpdnbrd Delivery Coy: Wednesday, January 11, 2917	De	livered		
Chevron .	Tracking Number: 9114999944314282020384 (Updated Delivery Ony: Thursday, January 12, 2017	De	livered		
Devon	Tracking Number: 9114999944314852070357 (Updated Delivery Day: Thursday, January 12, 2017 ()	De	livered		
BLM	Tracking himsen: 9140999451400200340 Updated Delivery Day: Wodnesday, January 11, 2017 12	De	livered		

Affidavit of Publication

	- 21 727	No.	24155
State of N	New Mexico	/	
County o	/ /	ma Dest	
Danny	Scott / Nes	my tose	
being dul	y s sworn sayes the	that she is the	Publisher
of the Ar	tesia Daily Press, a	daily newspaper of Gener	al
circulatio	n, published in Eng	glish at Artesia, said count	y
and state,	and that the hereto	attached	
	Legal	Ad	
was publi	ished in a regular a	and entire issue of the said	
Artesia D	aily Press, a daily	newspaper duly qualified	
for that p	urpose within the n	neaning of Chapter 167 of	
the 1937	Session Laws of th	ne state of New Mexico for	r
1	Consecutive we	eeks/day on the same	
day as fol	llows:		
First Pub	lication	January 4, 20)17
Second P	ublication		
Third Pub	olication		
Fourth Pu	iblication	197 (6 2 7)	
Fifth Pub	lication	weight the	
Sixth Pub	olication		
Subscribe	ed and sworn before	e me this	
5th	day of	January	2017
	Control of the Contro		2019

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

In a REVISION of a previous application, Ray Westall, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its Greenwood Pre-GB Unit Well No.1. The well, API No.30-015-22601 is located 1980 FSL & 660 FWL in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Penn and Strawn formations through selected perforated intervals between a maximum applied for top of 10,214 feet to maximum depth of 10,892 feet and based on further log analysis. Maximum injection pressure will be 2043 psi with a maximum rate limited only by such pressure. The well will be renamed the Greenwood Federal SWD No.1.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

Published in the Artesia Daily Press, Artesia, N.M., Jan. 4 2017 Legal No. 24155.

	1	. /	1-47 1/1	ulzus
C-108 Review Checklist: Received	Add. Requ	rest:	Reply Date:	Suspended: [Ver 15]
ORDER TYPE: WFX / PMX SWP Number:				
Well No Well Name(s): Gn = Ch	wood	Fad	545C	25AD12
Well No Well Name(s): Spud Date: Spud Date:	216-1578	New or Old:-	O (UIC Class II	Primacy 03/07/1982)
Footages 660 FWL Lot or t	Jnit <u>L</u> Sec <u>27</u>	Tsp /	S Rge 31E	County = ddy
General Location: 10 miles 5/44 BLM 100K Map: 1-10bs Operator: 0 penal	AMP Pool:	<u> دری ک</u>	PENN	Pool No.: 96113
BLM 100K Map: 1-tobbs Operator: 8 pchA	4 cs +c11 4, mg, In	OGRID	: 119305Conta	act: Agent
COMPLIANCE RULE 5.9: Total Wells: 97 Inactive:	Fincl Assur:	O Compl.	Order?M/ is	5.9 OK? Date:
WELL FILE REVIEWED Current Status:	-/A		1.11	
WELL DIAGRAMS: NEW: Proposed O or RE-ENTER: Before	e Conv. After C	Conv. 💆 L	.ogs in Imaging:	
Planned Rehab Work to Well:				
Well Construction Details Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Syor Cf	Cement Top and Determination Method
Planned _or Existing _Surface /7 3 1/3 3/6	724	Stage Tool	800	SUPFACE/VISSAY
Planned_or Existing _ Interm/Prod /1_ / 4/ 4 5/4	4644		2000	Supface/ Visyel
Planned_or Existing _Interm/Prod & 34/54	11 15		2300	2180/75
Planned_or ExistingProd/Liner				
Planned_or ExistingLiner		,		
Planned_or Existing_OH (PEDF /02/9/10492	· · · · · · · · · · · · · · · · · · ·	Inj Length	Comp	oletion/Operation Details:
Injection Lithostratigraphic Units: Depths (ft)	ion or Confining	<u>67な′</u> Tops	Dellad TD 116	PBTD 1000 1000
I de mante a constant de la management d	Units	· · ·	NEW TO	NEW PBTD _/1000
Adjacent Unit: Litho. Struc. Por.	uc	9670	INCAN ID	_ NEW I BID
Confining Unit: Litho. Struc. Por.	Penn	10214		or NEW Perfs
Proposed Inj Interval TOP: Proposed Inj Interval BOTTOM:	Afore	///34		_ in. Inter Coated? Depth _ <i>fO// Y</i> ft
Confining Unit: Litho. Struc. Por.	<u> </u>			10 1/4 (100-ft limit)
Adjacent Unit: Litho. Struc. Por.			· · · · · · · · · · · · · · · · · · ·	face Press.
AOR: Hydrologic and Geologic Informa	atión	i sana	•	20 43 (0.2 psi per ft)
POTASH: R-111-P_MINoticed? BLM Sec Ord () V		Salt/Sal		NW: Cliff House fm
THE THE STATE OF THE CHUTCHEN	1	T^-	2.33 * 1.51 × 1.	The State of the S
FRESH WATER: Aquifer M	ax Depth	HYDRU) AFFIRM STATEM	ENT By Qualified Person
NMOSE Basin: CAPITAN REEF: thru	adj (NA	No. Wells v	vithin 1-Mile Radius	? FW Analysis
Disposal Fluid: Formation Source(s)	Analysis	?	On Lease Opera	tor Only () or Commercial (
NMOSE Basin: Apital CAPITAN REEF: thru Show Indian Source(s) Disposal Int: Inject Rate (Avg/Max BWPD):	· _ Protectable Water	s?/_s	ource:	System: Closed or Open
HC Potential: Producing Interval?				
AOR Wells: 1/2-M Radius Map? Well List?				and the control of th
Penetrating Wells: No. Active Wells Num Repairs?	on which well(s)?_			Diagrams?
Penetrating Wells: No. P&A WellsNum Repairs?o	n which well(s)?			Diagrams?
NOTICE: Newspaper Date 1-4-2017 Mineral Owner	BLM	_ Surface C	OwnerBL	M. Date -11-207
RULE 26.7(A): Identified Tracts?Affected Persons:_	Devon	nume	ntum Co	64/15 N. Date 1-12-2017
Order Conditions: Issues:				
Add Order Cond:				
	uby cat	7. PIN		
	July			



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	,		(4)							(, ,,,,=			,	(,
POD Number	Code	POD Sub- basin	County		Q 16		Sec	Tws	Rng	x	Y		Depth D Well W	epth W	
L_00335		L	LE	4	1	3	35	185	35E	646843	3619253*	•	124	45	79
L 01225 POD1		L	LE	1	2	3	35	185	35E	647047	3619458*	•	97	50	47
L 02520		L	LE		4	1	23	185	35E	647088	3622989*	•	134	78	56
L 02678		L	LE		3	4	22	18S	35E	645890	3622166*	•	200	58	142
L 02678	R	L	LE		3	4	22	18S	35E	645890	3622166*	•	200	58	142
L 02678 POD2	R	L	LE		3	4	22	185	35E	645890	3622166*	•	185	58	127
L 02678 POD3		L	LE		3	4	22	185	35E	645890	3622166*	•	190	154	36
L 02679		L	LE		4	4	21	18S	35E	644680	3622151*	•	200	68	132
L 02679	R	L	LE		4	4	21	18\$	35E	644680	3622151*	•	200	68	132
L 02679 POD2	R	L	LE		3	2	22	18\$	35E	645876	3622973*	•	187	65	122
L 02680		L	LE		1	2	21	18\$	35E	644257	3623357*	•	190	59	131
L 03678		L	LE .				35	18\$	35E	647354	3619554*	•	115	60	55
L 03772		L	LE		2	2	21	18\$	35E	644659	3623361*	•.	130	60	70
L 03783		L	LE				27	185	35E	645710	3621138*	•	115	65	50
L 03866		L	LE		3	3	22	18\$	35E	645082	3622155*	•	127	65	62
L 03963		L	LE		1	2	27	18\$	35E	645896	3621762*	•	127	70	57
<u>L 04399</u>		Ł	LE		3	3	22	18\$	35E	645082	3622155*	•	90	75	15
<u>L 05810</u>	*	L	LE		2	3	22	18\$	35E	645479	3622564*	•	145	95	50
L_06868_		L	LE	1	4	3	26	18S	35E	647026	3620666*	•	110	57	53
L 06869		L	LE		1	3	26	185	35E	646717	3620966*	•	125	60	65
L 07129		L	LE	4	3	3	34	18S	35E	645237	3618830*	•	60	40	20
L 09373		L	LE		1	1	26	18S	35E	646704	3621773*	•	120	60	60
<u>L 09524</u>		L	LE		1	4	35	185	35E	647552	3619364*	•	140	57	83
L 09745		L	LE	2	4	3	35	18S	35E	647254	3619055*	•	106	65	41
L 09762		L	LE		3	3	33	18S	35E	643526	3618913*	•	160	80	80
<u>L 09958</u>		L	LE	4	2	2	35	18S	35E	648040	3620074*	•	150	55	95
L 13988 POD1		Ł	LE	1	3	4	34	185	35E	645839	3618945	•	110	.38	72

Average Depth to Water:

65 feet

Minimum Depth:

38 feet

Maximum Depth:

154 feet

Record Count: 27

PLSS Search:

Section(s): 21-23, 26-28, 33-35

Township: 18S

Range: 35E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/18/17 12:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

McMillan, Michael, EMNRD

From:

Kautz, Paul, EMNRD

Sent:

Thursday, February 2, 2017 9:21 AM

To:

McMillan, Michael, EMNRD; Podany, Raymond, EMNRD

Subject:

RE: Proposed SWD Greenwood Federal SWD Well No. 1, Ray Westall Operating

I have no objections.

Paul

From: McMillan, Michael, EMNRD

Sent: Thursday, February 2, 2017 8:23 AM

To: Kautz, Paul, EMNRD <paul.kautz@state.nm.us>; Podany, Raymond, EMNRD <Raymond.Podany@state.nm.us>

Subject: Proposed SWD Greenwood Federal SWD Well No. 1, Ray Westall Operating

Ray and Paul:

Do you have any objection to inject into the Wolfcamp and Strawn formations in the Greenwood Federal (API 30-015-22601) from 10214 feet to 10892 feet.

Initially Ray Westall wanted the Cisco through Strawn; however, the well file showed that the Cisco had a show in it, and then they reapplied for the Wolfcamp and Strawn

Mike

MICHAEL A. MCMILLAN

Engineering Bureau, Oil Conservation Division 1220 south St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 Michael.McMillan@state.nm.us