

PMAM1908146183



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V17]

DATE RECORD: First Rec: 3/2/19 Admin Complete: 6/12/19 or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: WFX / PMX / SWD Number: 2004 Order Date: 11/19/19 Legacy Permits/Orders: _____

Well No. 1 Well Name(s): McCrae SWD

API: 30-0 15 - Pending Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 275' FML 1000' FEL Lot _____ or Unit A Sec 33 Tsp 19 S Rge 28 E County Eddy

General Location: ~12 miles North North East of Carlsbad Pool: SWD Devonian-Silurian Pool No.: 97869

BLM 100K Map: Artesia Operator: Solaris Water Midstream, LLC OGRID: 371643 Contact: Ramona Hovey

COMPLIANCE RULE 5.9: Total Wells: 22 Inactive: 0 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 10/1/19

WELL FILE REVIEWED ☒ Current Status: new well

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

Planned Rehab Work to Well: N/A

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement <u>S</u> or Cf	Cement Top and Determination Method
Planned ☒ or Existing _____	Surface	18.125 / 16	614	308	surface / circulation
Planned ☒ or Existing _____	Interm/Prod	14.75 / 13.375	2594	462	surface / circulation
Planned ☒ or Existing _____	Interm/Prod	12.25 / 9.625	9924	2905	surface / circulation
Planned ☒ or Existing _____	Prod/Liner	8.5 / 7.625	9724 to 12094	459	9724 / CBL
Planned _____ or Existing _____	Liner				
Planned ☒ or Existing _____	OH / PERF	6.5	12094 to 14294	Inj Length 2200	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		Mississippian	
Confining Unit: Litho. Struc. Por.		woodford shale	
Proposed Inj Interval TOP:	12094	Devonian	12094
Proposed Inj Interval BOTTOM:	14294	Fuselman	
Confining Unit: Litho. Struc. Por.			14294
Adjacent Unit: Litho. Struc. Por.		Ordovician	

Completion/Operation Details:	
Drilled TD <u>N/A</u>	PBTD <u>N/A</u>
NEW TD <u>14294</u>	NEW PBTD <u>N/A</u>
NEW Open Hole ☒ or NEW Perfs ☐	
Tubing Size <u>55/5</u> in. Inter Coated? <u>Yes</u>	
Proposed Packer Depth <u>12044</u> ft	
Min. Packer Depth <u>11994'</u> (100-ft limit)	
Proposed Max. Surface Press. <u>2419</u> psi	
Admin. Inj. Press. <u>2419</u> (0.2 psi per ft)	

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? N/A BLM Sec Ord No WIPP No Noticed? N/A Salt/Salado T: 594 B: 844 NW: Cliff House fm No

USDW: Aquifer(s) Rustler Max Depth < 600 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Capitan CAPITAN REEF; thru _____ adj ☒ NA _____ No. GW Wells in 1-Mile Radius? 0 FW Analysis? No

Disposal Fluid: Formation Source(s) Artesia / Base Spring / narrow Analysis? Yes On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Interval: Inject Rate (Avg/Max BWPD): 30000 / 40000 Protectable Waters? No Source: Adj production System: Closed or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other mud log 2-Mi Radius Pool Map ☒

AOR Wells: 1/2-M _____ or ONE-M ☒ RADIUS MAP/WELL LIST: Total Penetrating Wells: 0 [AOR Hor: _____ AOR SWDs: _____]

Penetrating Wells: No. Active Wells 0 No. Corrective? 0 on which well(s)? N/A Diagrams? N/A

Penetrating Wells: No. P&A Wells 0 No. Corrective? 0 on which well(s)? N/A Diagrams? N/A

Induced-Seismicity Risk Assess: analysis submitted Yes historical/catalog review Yes fault-slip model No probability low

NOTICE: 1/2-M _____ or ONE-M ☒ : Newspaper Date 3/1/19 Mineral Owner* EOG Surface Owner Harley Winston Carol Ballard N. Date 3/21/19

RULE 26.11: Identified Tracts? Yes Affected Persons*: many (see packet) N. Date 3/21/19

* new definition as of 12/28/2018 [any the mineral estate of United States or state of New Mexico; SWD operators within the notice radius]

Order Conditions: Issues:

Additional COAs: CBL to confirm TOC for liner, check mud log for hydro carbon tests