

**FORM C-108 Technical Review Summary** [Prepared by reviewer and included with application; V17]DATE RECORD: First Rec: 4/4/19 Admin Complete: 4/24/19 or Suspended: _____ Add. Request/Reply: _____ORDER TYPE: WFX / PMX / SWD Number: 2038 Order Date: _____ Legacy Permits/Orders: _____Well No. 1 Well Name(s): Big Eddy Unit 17 Federal SWD 1API: 30-0 15 - pending Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)Footages 1091 FNL 1958 FEL Lot _____ or Unit 8 Sec 17 Tsp 225 Rge 29 E County EddyGeneral Location: ~ 13 miles East of Carlsbad Pool: SWD; Devonian - Silurian Pool No.: 97869BLM 100K Map: _____ Operator: XTO Armon Operating, LLC OGRID: 373075 Contact: Tracie CherryCOMPLIANCE RULE 5.9: Total Wells: 813 Inactive: 0 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 12/12/19WELL FILE REVIEWED ☒ Current Status: New wellWELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: N/APlanned Rehab Work to Well: N/A

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ☒ or Existing ☐ <u>Surface</u>		24 18 5/8	290	660	Surf circ
Planned ☒ or Existing ☐ <u>Interm/Prod</u>		17 1/2 13 3/8	3,030	2415	Surf circ
Planned ☒ or Existing ☐ <u>Interm/Prod</u>		12 3/4 9 5/8	10,400	3233	Surf circ
Planned ☒ or Existing ☐ <u>Prod/Liner</u>		8 1/2 7	10,000 to 14,240	585	10,000 CBL
Planned ☐ or Existing ☐ <u>Liner</u>					
Planned ☒ or Existing ☐ <u>QH / PERF</u>		6	14,240 to 14,975	Inj Length 735	
Injection Lithostratigraphic Units:			Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.				Mississippian LS	13,518
Confining Unit: Litho. Struc. Por.				Woodford	14,089
Proposed Inj Interval TOP:			14,240	Devonian	14,281
Proposed Inj Interval BOTTOM:			14,975	Fusellman	14,498
Confining Unit: Litho. Struc. Por.				Monkoya	14,978
Adjacent Unit: Litho. Struc. Por.					
Completion/Operation Details:					
Drilled TD <u>N/A</u> PBTD <u>N/A</u>					
NEW TD <u>14,975</u> NEW PBTD <u>N/A</u>					
NEW Open Hole ☒ or NEW Perfs ☐					
Tubing Size <u>5 1/2 / 4 1/2</u> in. Inter Coated? <u>Yes</u>					
Proposed Packer Depth <u>14,165</u> ft					
Min. Packer Depth <u>14,140</u> (100-ft limit)					
Proposed Max. Surface Press. <u>2,848</u> psi					
Admin. Inj. Press. <u>2,848</u> (0.2 psi per ft)					
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P <u>No</u> Noticed? <u>N/A</u> BLM Sec Ord ☒ WIPP <u>No</u> Noticed? <u>Yes</u> Salt/Salado T: <u>449</u> B: <u>2935</u> NW: Cliff House fm <u>N/A</u>					
USDW: Aquifer(s) <u>Rustler</u> Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person ☒					
NMOSE Basin: _____ CAPITAN REEF: thru _____ adj _____ NA <u>7+ miles</u> No. GW Wells in 1-Mile Radius? <u>0</u> FW Analysis? <u>N/A</u>					
Disposal Fluid: Formation Source(s) <u>Delaware / Bone Spring / Wolfcamp</u> Analysis? <u>Yes</u> On Lease ☐ Operator Only ☒ or Commercial ☐					
Disposal Interval: Inject Rate (Avg/Max BWPD): <u>20,000 / 40,000</u> Protectable Waters? <u>No</u> Source: <u>Regional data</u> System: <u>Closed</u> or <u>Open</u>					
HC Potential: Producing Interval? <u>No</u> Formerly Producing? <u>No</u> Method: Logs/DST/P&A/Other <u>mud log</u> 2-Mi Radius Pool Map ☐					
AOR Wells: 1/2-M _____ or ONE-M ☒ RADIUS MAP/WELL LIST: Total Penetrating Wells: <u>0</u> [AOR Hor: <u>0</u> AOR SWDs: <u>0</u>]					
Penetrating Wells: No. Active Wells <u>0</u> No. Corrective? <u>0</u> on which well(s)? <u>N/A</u> Diagrams? <u>N/A</u>					
Penetrating Wells: No. P&A Wells <u>0</u> No. Corrective? <u>0</u> on which well(s)? <u>N/A</u> Diagrams? <u>N/A</u>					
Induced-Seismicity Risk Assess: analysis submitted <u>Yes</u> historical/catalog review <u>Yes</u> fault-slip model <u>Yes</u> probability <u>low</u>					
NOTICE: 1/2-M _____ or ONE-M ☒ : Newspaper Date <u>4/4/19</u> Mineral Owner* <u>BLM</u> Surface Owner <u>BLM</u> N. Date <u>4/5/19</u>					
RULE 26.7(A): Identified Tracts? <u>Yes</u> Affected Persons*: <u>BLM / SLO / DK Arms, Inc. / Delmar Hudson Lewis Living Trust / Hudson</u> N. Date <u>4/5/19</u>					
* 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: mud log for HC potential / CBL for TOC for Liner / BH pressure / set surface casing below at least the first anhydrite.