



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

DATE RECORD: First Rec: 10/25/18 Admin Complete: 11/10/18 or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: WFX / PMX / SWD Number: 1841 Order Date: _____ Legacy Permits/Orders: _____

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

API: 30-0 25 - Pending Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 2301 FNL 2426 FNL Lot _____ or Unit F Sec 29 Tsp 235 Rge 33 E County Lea

General Location: _____ Pool: SWD; Silurian - Devonian Pool No.: 97869

BLM 100K Map: _____ Operator: OWL SWD operating, LLC OGRID: 308339 Contact: Ramona Hovey

COMPLIANCE RULE 5.9: Total Wells: 16 Inactive: 2 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 12/31/19

WELL FILE REVIEWED ☒ Current Status: New

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

Planned 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 ☐ Surface		26	20	1825		3600	Surface Circ
Planned ☒ or Existing ☐ Interm/Prod		17 1/2	13 5/8	5150		3640	Surface Circ
Planned ☒ or Existing ☐ Interm/Prod		12 1/4	9 5/8	14075	6,100	3945	Surface Circ
Planned ☒ or Existing ☐ Prod/Liner		8 1/2	7 5/8	13,875 to 17,157		315	13875 CBL
Planned ☐ or Existing ☐ Liner							
Planned ☒ or Existing ☐ OH / PERF				17,157 to 18,700	Inj Length 1543		

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			Mss: Lime	16545
Confining Unit: Litho. Struc. Por.			Woodford	16970
Proposed Inj Interval TOP:			Devonian	17157
Proposed Inj Interval BOTTOM:			Fusellman	18107
Confining Unit: Litho. Struc. Por.			Montoya	18644
Adjacent Unit: Litho. Struc. Por.				

Completion/Operation Details:	
Drilled TD	N/A PBDT N/A
NEW TD	18,700 NEW PBDT N/A
NEW Open Hole	☒ or NEW Perfs ☐
Tubing Size	5 1/2 in. Inter Coated? Yes
Proposed Packer Depth	17,100 ft
Min. Packer Depth	17,057 (100-ft limit)
Proposed Max. Surface Press.	3431 psi
Admin. Inj. Press.	3431 (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: 1775 B: NW: Cliff House fm N/A

USDW: Aquifer(s) Rustler / Santa Rosa Max Depth < 1775 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: _____ CAPITAN REEF: thru _____ adj _____ NA ^{8 miles} No. GW Wells in 1-Mile Radius? 2 FW Analysis? Yes

Disposal Fluid: Formation Source(s) BS / Delaware Analysis? Yes On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Interval: Inject Rate (Avg/Max BWPD): 20,000 / 20,000 Protectable Waters? No Source: Adj Sample 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: 0 AOR SWDs: 0]

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 _____ historical/catalog review _____ fault-slip model _____ probability _____

NOTICE: 1/2-M ☒ or ONE-M ☐ : Newspaper Date 10/14/18 Mineral Owner* OXY Surface Owner BLM N. Date 10/17/18

RULE 26.7(A): Identified Tracts? Yes Affected Persons*: See application N. Date 10/17/18

* 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 for POC of liner / mudlog for hydrocarbon tells / BH Pressure