



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: 1838 Order Date: _____ Legacy Permits/Orders: _____

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

API: 30-0 25 - pending Spud Date: T 80 New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 2484 FNL 1181 FWL Lot _____ or Unit E Sec 21 Tsp 23S Rge 33E 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 St or Cf		Cement Top and Determination Method	
Planned ☒ or Existing ☐ Surface		26	20	1,880	Stage Tool	3700		surface	Circulation
Planned ☒ or Existing ☐ Interm/Prod		17 1/2	13 5/8	5,235		3690		surface	Circulation
Planned ☒ or Existing ☐ Interm/Prod		12 1/4	9 5/8	14,100	6,100	3140		surface	Circulation
Planned ☒ or Existing ☐ Prod/Liner		8 1/2	7 5/8	13,900 to 17,060		300		13,900	CL
Planned ☐ or Existing ☐ Liner									
Planned ☒ or Existing ☐ OH / PERF				17,060 to 18,600	Inj Length 1540				

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			Missi Lime	16451
Confining Unit: Litho. Struc. Por.			woodford	16876
Proposed Inj Interval TOP:			Devonian	17061
Proposed Inj Interval BOTTOM:			Fusselman	18011
Confining Unit: Litho. Struc. Por.			Montoya	18548
Adjacent Unit: Litho. Struc. Por.				

Completion/Operation Details:	
Drilled TD	N/A PBDT N/A
NEW TD	18600 NEW PBDT N/A
NEW Open Hole	☒ or NEW Perfs ☐
Tubing Size	5 1/2 in. Inter Coated? Yes
Proposed Packer Depth	17010 ft
Min. Packer Depth	16960 (100-ft limit)
Proposed Max. Surface Press.	3412 psi
Admin. Inj. Press.	3412 (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: 1828 B: NW: Cliff House fm N/A

USDW: Aquifer(s) Rustler / Santa Rosa Max Depth < 1828 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: _____ CAPITAN REEF: thru _____ adj _____ NA 7 miles No. GW Wells in 1-Mile Radius? 3 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): 20,000/30,000 Protectable Waters? No Source: Adj sample System: Closed or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other mudlog 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 10/14/2018 Mineral Owner ConocoPhillips Surface Owner Hughes Properties N. Date 10/17/18

RULE 26.7(A): Identified Tracts? _____ 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: CL for TOC of liner / mudlog for hydrocarbon tells / BH Pressure