

**District I**  
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**District II**  
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**District III**  
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**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

**State of New Mexico**  
**Energy Minerals and Natural Resources**

**RECEIVED**

Form C-101  
Revised July 18, 2013

**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

**MAY 10 2019**

**AMENDED REPORT**

**DISTRICT II-ARTESIA O.C.D.**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Judah Oil, LLC P. O. Box 568 Artesia, NM 88211		<sup>2</sup> OGRID Number 245872
		<sup>3</sup> API Number 30-015-45535
<sup>4</sup> Property Code 322996	<sup>5</sup> Property Name Shinnery Oak SWD	<sup>6</sup> Well No. 003

**7. Surface Location**

UL - Lot	Section\	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E - 13	2	21S	28E		3312	South	1014	West	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

Pool Name SWD; Devonian - Silurian	Pool Code 97869
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**Additional Well Information**

<sup>11</sup> Work Type New	<sup>12</sup> Well Type S	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type P	<sup>15</sup> Ground Level Elevation 3322'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 14310'	<sup>18</sup> Formation Devonian - Silurian	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date TBD
Depth to Ground water > 200'	Distance from nearest fresh water well > 1 mile	Distance to nearest surface water 0.76 miles		

**We will be using a closed-loop system in lieu of lined pits**

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	28-1/2"	24"	186.2	280	360	Surface
Interm 1	22"	18-5/8"	114	1650	1180	Surface
Interm 2	17-1/2"	13-3/8"	68	3300	1500	Surface
Interm 3	12-1/4"	9-5/8"	40	9720	2100	1590
Prod/Liner	8-3/4"	7-5/8"	33.7	9220-13640	250	TOL-9220

**Casing/Cement Program: Additional Comments**

Amended well construction after discussions with OCD Engineering Bureau and offset operators. SWD Order pending.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram/Hydril	10,000/5000	10,000/5000	NOV (National)

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC  and/or 19.15.14.9 (B) NMAC  if applicable.

Signature: *DJ Holcomb*

Printed name: Danny J. Holcomb

Title: Agent Judah Oil, LLC

E-mail Address: danny@pwllc.net

Date: 5/7/2019

Phone: 806-471-5628

<b>OIL CONSERVATION DIVISION</b>	
Approved By: <i>Raymond N. Judany</i>	
Title: <i>Geologist</i>	
Approved Date: 5-10-19	Expiration Date: 5-10-21
Conditions of Approval Attached <i>APPROVED C108</i>	

**Shinnery Oak SWD #3**  
**API 30-015-45535**  
**E-2-21S-28E, Eddy County, New Mexico**

**Summary of Well Construction Changes on Amended C-101**

- 1) TD change from 14,420' to 14,310' to avoid penetrating the Montoya formation. If the Montoya is encountered high, we plan to TD the well there and set a bottom hole cement plug to isolate the Montoya.
- 2) Increase hole size and casing size on the surface string to accommodate an additional intermediate casing string.
- 3) Add an additional intermediate casing string to comply with OCD/BLM's "4 string area" requirement within this section of the Capitan Reef.
- 4) Decrease hole size on the production casing string.

The above changes are being made to reflect SWD order discussions with OCD Engineering Bureau personnel and an offset operator.

*RVP 5-10-19*

# WELLBORE SCHEMATIC

**WELL: Shinnery Oak SWD #3**

**PROSPECT: Devonian SWD**

**JUDAH OIL, LLC**

GL ELEV : 3322'  
RKB ELEV : 3350.5'

Surface Hole Location : 3312' FSL & 1014' FWL  
Sec. 2, TWP 21-S, RGE 28-E  
Eddy County, NM  
API 30-015-45535

Formation Tops	MW (PPG)	Directional and BHA Details	CASING DIAGRAM	Depth (MD)	Hole	Casing & Cement Details 30" Conductor @ ± 120'	Notes	
	8.4-8.6 FW ↓	• Hold vertical		280'	28-1/2" ↓	<b>Surf. Csg Cmt:</b> (50% OH excess) Tail: 300' critical Total Sacks Cement: 360  <b>24", 186.2#, X-60, T&amp;C</b>		
Anhy – 627 Yates – 1280 Capitan Reef – 1640	9.8-10.0 Sat. Brine ↓	• Hold vertical		1,650	22" ↓	<b>Int. 1 Csg Cmt:</b> (50% OH excess) Lead: Circulate to surface Tail: 300' critical Total Sacks Cement: 1180 18-5/8", 114#, Q-125, Hunting Seal-Lock Flush		
Delaware – 3110	8.4-8.6 FW ↓	• Hold vertical		3,300	17-1/2" ↓	<b>Int. 2 Csg Cmt:</b> (40% OH excess) Lead: Circulate to surface Tail: 20% critical Total Sacks Cement: 1500 (2 stg) 13-3/8", 68#, J-55, BTC	• DV Tool @ 1440' with 2-stage Cement Job	
Bone Spring – 6270 Wolfcamp – 9668	8.7-9.2 Cut Brine ↓	• Hold vertical		9,720'	12-1/4" ↓	<b>Int. 3 Csg Cmt:</b> (40% OH excess) Lead: 3,100' Tail: 8,700' Total Sacks Cement: 2100 (min TOC at 50 ft above Capitan Reef)  <b>9-5/8", 40#, P-110HC, BTC</b>		
Penn – 10502 Strawn – 10818 Morrow – 11648 Mississippi – 12320 Woodford – 13252 Devonian – 13360	9.5-12 Mud ↓	• Hold vertical		13,640'	8-3/4" ↓	<b>Prod Csg Cmt:</b> Lead: 9,220' Tail: 12,640' (10% OH excess, subject to change based on fluid caliper) Total Sacks Cement: 250  <b>Liner Hanger</b> 7-5/8", 33.7#, P-110HC, USS Liberty FJM, 9,220' – TD Liner		
Fusselman – 13645	8.4-8.5 FW ↓	• Hold vertical		TD 14,310'	6-1/2" ↓	<b>Tubing:</b> Permanent Packer @ 13,540' (Packer must be set within 100' of casing shoe) 5-1/2", 20#, P-110IC, BTC, IPC		
Montoya - 14320	↓	• Hold vertical						

PWS 5-10-19