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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
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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

¹ Operator Name and Address Judah Oil, LLC P. O. Box 568 Artesia, NM 88211		² OGRID Number 245872
		³ API Number 30-015-45535
⁴ Property Code 322996	⁵ Property Name Shinnery Oak SWD	⁶ 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

¹¹ Work Type New	¹² Well Type S	¹³ Cable/Rotary R	¹⁴ Lease Type P	¹⁵ Ground Level Elevation 3322'
¹⁶ Multiple N	¹⁷ Proposed Depth 14310'	¹⁸ Formation Devonian - Silurian	¹⁹ Contractor TBD	²⁰ 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)

²³ 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: *D. 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

OIL CONSERVATION DIVISION

Approved By:

Raymond N. Redding

Title: *Geologist*

Approved Date: 5-10-19

Expiration Date: 5-10-21

Conditions of Approval Attached *Approved C108*

**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'

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

RKB ELEV : 3350.5'

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"	Surf. Csg Cmt: (50% OH excess) Tail: 300' critical Total Sacks Cement: 360 24", 186.2#, X-60, T&C	
Anhy – 627 Yates – 1280 Capitan Reef – 1640	9.8-10.0 Sat. Brine ↓	• Hold vertical		1,650	22"	Int. 1 Csg Cmt: (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"	Int. 2 Csg Cmt: (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"	Int. 3 Csg Cmt: (40% OH excess) Lead: 3,100' Tail: 8,700' Total Sacks Cement: 2100 (min TOC at 50 ft above Capitan Reef) 9-5/8", 40#, P-110HC, BTC	
Penn – 10502 Strawn – 10818 Morrow – 11648 Mississippi – 12320 Woodford – 13252 Devonian – 13360	9.5-12 Mud ↓	• Hold vertical		13,640'	8-3/4"	Prod Csg Cmt: Lead: 9,220' Tail: 12,640' (10% OH excess, subject to change based on fluid caliper) Total Sacks Cement: 250 Liner Hanger 7-5/8", 33.7#, P-110HC, USS Liberty FJM, 9,220' – TD Liner	
Fusselman – 13645 Montoya - 14320	8.4-8.5 FW ↓	• Hold vertical		TD 14,310'	6-1/2"	Tubing: Permanent Packer @ 13,540' (Packer must be set within 100' of casing shoe) 5-1/2", 20#, P-110IC, BTC, IPC	

Prepared: 5/7/2019

PWS 5-10-19