Additional

Information

Notice and Casing Updates 5/6/20

LONQUIST & CO. LLC

AUSTIN **HOUSTON**

PETROLEUM **ENGINEERS**

ENERGY **ADVISORS** **WICHITA** CALGARY

www.longuist.com

May 6, 2020

New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division District IV 1220 South St. Francis Drive Santa Fe, New Mexico 87505 (505) 476-3440

RE: SHOLES DEEP SWD NO. 3 AUTHORIZATION TO INJECT SUPPLEMENTAL INFORMATION

Mr. Lamkin:

In response to your email on March 11, 2020 we are submitting the following documents to address your concerns:

- Revised Wellbore Schematic
 - o Reduced interval to exclude the Montoya in the injection interval
 - o Reduce tubing to 5" flush joint
- Revised C-108 Support Document to match changes to wellbore schematic
- Produced water analysis summary

Camone & Hovey

• Proof of notice for the four additional operators indicated.

Please do not hesitate to contact me with any further questions.

Regards,

Ramona K. Hovey Sr. Petroleum Engineer Longuist & Co., LLC

(512) 600-1777

ramona@lonquist.com

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: OWL SWD Operating, LLC ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, TX 75255 CONTACT PARTY: Preston Carr PHONE: (855) 695-7937
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for OWL SWD Operating, LLC
	SIGNATURE: Tymou (torre DATE: 5/6/2020
*	E-MAIL ADDRESS: ramona@lonquist.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC (OGRID 308339)

WELL NAME & NUMBER: Sholes Deep SWD No. 3

WELL LOCATION: 2,335' FSL & 205' FEL

FOOTAGE LOCATION

UNIT LETTER

07 SECTION 25 S TOWNSHIP 37 E RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 20" Casing Size: 16"

Cemented with: <u>1380 sks</u> **or** ______ ft

Top of Cement: surface Method Determined: circulation

Intermediate Casing

Hole Size: <u>14-3/4</u>" Casing Size: 10-3/4"

Top of Cement: <u>surface</u> Method Determined: <u>circulation</u>

Production Casing

Hole Size: 9-1/2" Casing Size: 7-5/8"

Cemented with: <u>1065 sks</u> **or** ______ ft³

Top of Cement: <u>surface</u> Method Determined: <u>circulation</u>

Total Depth: 11,665'

Injection Interval

9,850 feet to 11,615 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.00", 18.0 Lining Material: Duoline	<u>lb/ft, P-110 UFJ (or equivalent), from 0' – 9,800'</u>
Type of Packer: 7-5/8" x	5" D&L Oil Tools Permapack Packer – Single Bore
Packer Setting Depth: 9,	<u>300'</u>
Other Type of Tubing/Ca	asing Seal (if applicable):
	Additional Data
1. Is this a new well dr	illed for injection?XYesNo
If no, for what purpo	ose was the well originally drilled?
2. Name of the Injection	on Formation: Silurian-Devonian
3. Name of Field or Po	ol (if applicable):SWD; Silurian-Devonian
	een perforated in any other zone(s)? List all such perforated lugging detail, i.e. sacks of cement or plug(s) used.
No, new drill.	

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Formation	Depth
Yates	2,834′
Seven Rivers	3,070′
Queen	3,296′
Glorieta	4,228'
Wolfcamp	7,954'
Woodford	9,377'
Devonian	9,850'
Fusselman	10,756'

OWL SWD Operating, LLC.

Sholes Deep SWD No. 3

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information						
Lease Name	Sholes Deep SWD					
Well No.	3					
Location	Unit I S-07 T-25S R-37E					
Footage Location	2,335' FSL & 205' FEL					

2.

a. Wellbore Description

	Cas	ing Information	
Туре	Surface	Intermediate	Production
OD	16"	10-3/4"	7-5/8"
WT	0.566"	0.450"	0.500"
ID	14.868"	9.850"	6.625"
Drift ID	N/A	9.694"	6.500"
COD	17.000"	11.750"	8.500"
Weight	95 lb/ft	51lb/ft	39 lb/ft
Grade	P-110 BTC (or Equivalent)	L-80 STC (Or Equivalent)	L-80 LTC (Or Equivalent)
Hole Size	20"	14-3/4"	9-1/2"
Depth Set	1,440'	4,280'	9,850'

b. Cementing Program

	C	ement Information	1
Casing String	Surface	Intermediate 1	Production
Lead Cement	ECONOCEM	NeoCem	Stage 1: NeoCem Stage 2: NeoCem
Lead Cement Volume	875 sks	1,155 sks	Stage 1: 450 sks Stage 2: 285 sks
Tail Cement	HALCEM	NeoCem	Stage 1: VersaCem Stage 2: HalCem
Tail Cement Volume	505 sks	595 sks	Stage 1: 230 sks Stage 2: 100 sks
Cement Excess	100%	100%	50%
TOC	Surface	Surface	Surface
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface

3. Tubing Description

•	Tubing
OD	5″
WT	0.362"
ID	4.276"
Drift ID	4.151"
COD	5.00"
Weight	18 lb/ft
Grade	P-110 UFJ (Or Equivalent
Depth Set	9,800′

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7-5/8" x 5" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Silurian - Devonian

2. Gross Injection Interval: 9,850' – 11,615'

Completion Type: Open Hole (6-1/2" Diameter)

3. Drilled for injection.

4. See the attached wellbore schematic.

5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Yates	2,834'
Seven Rivers	3,070′
Queen	3,296'
Glorieta	4,228'
Wolfcamp	7,954'
Woodford	9,377'
Devonian	9,850'
Fusselman	10,756'

VI. Area of Review

One well within the one-mile AOR penetrated the proposed injection zone. The Fulfer Oil & Cattle, LLC's Jal North Ranch SWD #1 (30-025-27085) is currently an active injection well.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD Maximum Volume: 30,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 1,478 PSI (surface pressure) Maximum Injection Pressure: 1,970 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Devonian and Fusselman formations.
- 5. As mentioned above, a Devonian produced water sample analysis is attached.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation near Jal are two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a successful Salt Water Disposal horizon.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Rustler	1,088′
Salado	1,388′
Yates	2,834'
Seven Rivers	3,070′
Queen	3,296′
Grayburg	3,669'
Glorieta	4,228′
Yeso	5,424'
Wolfcamp	7,954′
Mississippian Lime	8,794'
Woodford	9,377′
Devonian	9,850′
Fusselman	10,756′
Montoya	11,615′

B. Underground Sources of Drinking Water

Water wells in the one-mile surrounding area for the proposed Sholes Deep SWD #3 well are at depths ranging from 57 ft to 495 ft. The Rustler may also be another USDW and will be protected through the top of the Salado Formation at 1,388' by setting surface casing at 1,440'.

IX. Proposed Stimulation Program

No proposed stimulation program.

X. Logging and Test Data on the Well

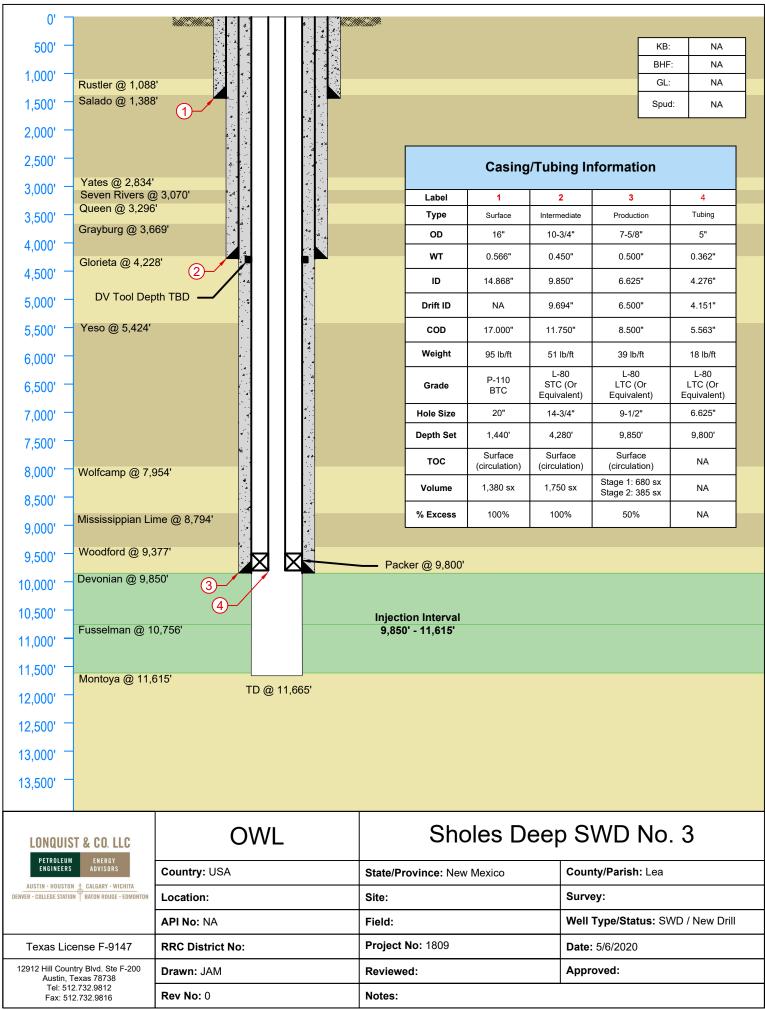
There are no existing logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are nine (9) fresh water wells within one mile of the well location, per the New Mexico Office of the State Engineer. A list of all the water wells, a map of these wells and their associated Water Right Summaries are attached. Fresh water samples will be obtained from two of the wells and analysis of these samples will be submitted as soon as possible.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.



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	api latitude	- u	section towns	hip range 36E	unit	ftgns 600N	ftgew	county	state	formation		_cm _soaium_mgL	calcium_mgL magnesium_mg				uitate_mgL
STATE B COM #001 C C FRISTOE A FEDERAL NCT 2 #0	3002509716 32.1794052 3002520929 32.1547699	-103.2212524 -103.1435013	36 24S 3 25S	37E	D	9905	1880W 402E	LEA	NM NM	DEVONIAN BLINEBRY	176234 141195		10740	84080	128	1004 1107	2593
SOUTH JUSTIS UNIT #017	3002511573 32.1275864		13 25\$	37E	ı	1650S	990E	LEA	NM	BLINEBRY	1/2/1900 5.5		+	62176		1107	2595
SOUTH JUSTIS UNIT #181	3002511567 32.1239586		13 255	37E	0	330S	1980E	LEA	NM	BLINEBRY	1/2/1900 6.9 60880		3546 91			761	1997
CARLSON FEDERAL #002	3002511707 32.1103554		23 255	37E	N	660S	1980E	LEA	NM	BLINEBRY	10/29/1959 7 122000		3340 31	75000		488	1740
LANGLIE A FEDERAL #001	3002511631 32.1293907	-103.183815	17 25S	37E	i	23105	2310E	LEA	NM	BLINEBRY	11/18/1959 6.7 316000			186000		79	7080
NEW MEXICO BZ STATE NCT-10 #		-103.1358109	2 255	37E	N	9905	1978W	LEA	NM	BLINEBRY	104658			63820		975	2592
CARLSON FEDERAL #002	3002511707 32.1103554	-103.1315765	23 255	37E	N	660S	1980E	LEA	NM	BLINEBRY	6/27/1959 6.5 307700			180000		152	8330
CARLSON FEDERAL #002	3002511707 32.1103554		23 255	37E	N	660S	1980E	LEA	NM	BLINEBRY	6/28/1959 5.8 301600			177000		238	7530
CARLSON FEDERAL #002	3002511707 32.1103554		23 25S	37E	N	660S	1980E	LEA	NM	BLINEBRY	7/1/1959 5.8 293100			171000		207	8400
LEARCY MCBUFFINGTON #014	3002520208 32.1239586	-103.1113434	13 25S	37E	Р	330S	990E	LEA	NM	BLINEBRY/TUBB/DRINKARD	1/2/1900 6.9 63222		2750 56	6 5216		1061	3156
LANGLIE B FEDERAL TR #005	3002521010 32.123951	-103.1390152	14 25S	37E	М	330S	990W	LEA	NM	BLINEBRY/TUBB/DRINKARD	142804			87380		1050	879
LANGLIE B FEDERAL TR #005	3002521010 32.123951	-103.1390152	14 25S	37E	М	330S	990W	LEA	NM	BLINEBRY/TUBB/DRINKARD	105568			66510		977	425
SOUTH JUSTIS UNIT #015	3002511558 32.1348305	-103.1241074	13 255	37E	D	990N	330W	LEA	NM	BLINEBRY/TUBB/DRINKARD	294875			172000		400	7800
SOUTH JUSTIS UNIT #017	3002511566 32.1275864	-103.1145477	13 25S	37E	J	1650S	1980E	LEA	NM	BLINEBRY/TUBB/DRINKARD	85217			54200		107	1520
SOUTH JUSTIS UNIT #181	3002511567 32.1239586	-103.1145477	13 25S	37E	0	330S	1980E	LEA	NM	BLINEBRY/TUBB/DRINKARD	60865			35770		761	1997
SOUTH JUSTIS UNIT #016	3002511579 32.1312103	-103.1145477	13 255	37E	G	2310N	1980E	LEA	NM	BLINEBRY/TUBB/DRINKARD	100035			59070		548	3007
SOUTH JUSTIS UNIT #022	3002511701 32.1103516	-103.1262436	23 25S	37E	Р	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	200864			121400		1015	1753
SOUTH JUSTIS UNIT #022	3002511701 32.1103516	-103.1262436	23 25S	37E	Р	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	166151			103000		3164	1616
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 25S	37E	Р	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	155945			95890		298	600
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 25S	37E	Р	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	146236			88460		902	1566
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 25S	37E	Р	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	72630						
SOUTH JUSTIS UNIT #022	3002511701 32.1103516	ł	23 25S	37E	P	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	143620			87290		635	1249
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 255	37E	P	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	132309			80000		858	1465
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 255	37E	P	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	171292			104600		3398	1699
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 255	37E	P	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	161364			99520		1178	1324
SOUTH JUSTIS UNIT #022	3002511701 32.1103516 3002511701 32.1103516	-103.1262436 -103.1262436	23 25S 23 25S	37E 37E	P	660S 660S	330E	LEA LEA	NM NM	BLINEBRY/TUBB/DRINKARD	8420 145218			07670		733	1240
SOUTH JUSTIS UNIT #022 SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 255	37E	P D	660S	330E 330E	LEA	NM	BLINEBRY/TUBB/DRINKARD BLINEBRY/TUBB/DRINKARD	145218			87670 92800		430	1240 3400
SOUTH JUSTIS UNIT #022	3002511701 32.1103516		23 255	37E	D	660S	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD	136415			82570		736	1515
SOUTH JUSTIS UNIT #021	3002511743 32.1142578		24 25\$	37E	1	20805	1980E	LEA	NM	BLINEBRY/TUBB/DRINKARD	78008			45600		928	2180
SOUTH JUSTIS UNIT #022	3002511747 32.1103554		24 25\$	37E	N	660S	1650W	LEA	NM	BLINEBRY/TUBB/DRINKARD	82794			47200		977	3168
WIMBERLY WN #005	3002511752 32.120327	-103.1177139	24 25\$	37E	C	990N	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	119346			72590		157	1516
WIMBERLY WN #005	3002511752 32.120327	-103.1177139	24 25S	37E	C	990N	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	58780			32180		909	3657
WIMBERLY WN #005	3002511752 32.120327	-103.1177139	24 255	37E	C	990N	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	68312			38770		943	2620
WIMBERLY WN #005	3002511752 32.120327	-103.1177139	24 25S	37E	С	990N	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	64738			36570		1094	3439
WIMBERLY WN #005	3002511752 32.120327	-103.1177139	24 25S	37E	С	990N	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	177895			108700		41	1565
CARLSON A #001	3002511756 32.1003838	-103.1156082	25 25S	37E	J	23105	2310E	LEA	NM	BLINEBRY/TUBB/DRINKARD	325610			191000		0	8300
CARLSON A #001	3002511756 32.1003838	-103.1156082	25 25S	37E	J	23105	2310E	LEA	NM	BLINEBRY/TUBB/DRINKARD	331480			193000		470	9500
CARLSON A #001	3002511756 32.1003838	-103.1156082	25 25 S	37E	J	2310S	2310E	LEA	NM	BLINEBRY/TUBB/DRINKARD	200674			121600		565	1160
CARLSON A #001	3002511756 32.1003838	-103.1156082	25 25 S	37E	J	2310S	2310E	LEA	NM	BLINEBRY/TUBB/DRINKARD	103381			60340		235	3076
SOUTH JUSTIS UNIT #024	3002511763 32.1040039	-103.1219864	25 25 S	37E	E	1650N	990W	LEA	NM	BLINEBRY/TUBB/DRINKARD	61040			35600		900	1500
SOUTH JUSTIS UNIT #026	3002511765 32.096756		25 25S	37E	N	990S	2310W	LEA	NM	BLINEBRY/TUBB/DRINKARD	66418			37650		690	3347
SOUTH JUSTIS UNIT #026	3002511766 32.096508		25 25S	37E	M	900S	990W	LEA	NM	BLINEBRY/TUBB/DRINKARD	121015						
LANGLIE B FEDERAL TR #006	3002525935 32.1293945		14 25S	37E	L	2310S	990W	LEA	NM	BLINEBRY/TUBB/DRINKARD	9/11/1978 6.8 115658			69100		683	2100
SOUTH JUSTIS UNIT #027	3002511907 32.0931244		36 25\$	37E	В	330N	1650E	LEA	NM	BLINEBRY/TUBB/DRINKARD	12/17/1965 6.6 58224			32788		367	2816
SOUTH JUSTIS UNIT #021	3002511743 32.1142578		24 25S	37E	J_	20805	1980E	LEA	NM	BLINEBRY/TUBB/DRINKARD	8/10/1966 68390			37570		0	4152
	3002511904 32.0921364		36 258	37E	ט	690N	925W	LEA	NM	BLINEBRY/TUBB/DRINKARD	8/10/1966 106900 8/10/1966 58330			63320		251	2568
SOUTH JUSTIS UNIT #010	3002511907 32.0931244		36 258	37E	R	330N	1650E	LEA	NM	BLINEBRY/TUBB/DRINKARD	8/10/1966 58220		 	32790		367	2816
SOUTH JUSTIS UNIT #019	3002511729 32.1212349		24 258	37E	B	660N	1980E	LEA LEA	NM	BLINEBRY/TUBB/DRINKARD	4/14/1957 8 90800		 	52200		132	4290
SOUTH JUSTIS UNIT #026 SOUTH JUSTIS UNIT #023	3002511778 32.0967751 3002511793 32.1067238		25 25S 26 25S	37E 37E	<u>Γ</u>	998S 660N	660E 330E	LEA	NM NM	BLINEBRY/TUBB/DRINKARD BLINEBRY/TUBB/DRINKARD	168865 108440			102600 64500		151 1320	2236 1500
SOUTH JUSTIS UNIT #023 SOUTH JUSTIS UNIT #027	3002511793 32.1067238 3002511892 32.0931282		35 25S	37E 37E	Λ	330N	330E	LEA	NM	BLINEBRY/TUBB/DRINKARD BLINEBRY/TUBB/DRINKARD	152384			90830		94	2642
SOUTH JUSTIS UNIT #027	3002511892 32.0931282		36 25S	37E	K	1980S	1980W	LEA	NM	BLINEBRY/TUBB/DRINKARD	103553			61280		649	3532
A B COATES C FEDERAL #025	3002520060 32.1203308		24 25\$	37E	٨	990N	940E	LEA	NM	BLINEBRY/TUBB/DRINKARD	105692		+	61600		1734	2973
A B COATES C FEDERAL #025	3002520060 32.1203308		24 25\$	37E	Δ	990N	940E	LEA	NM	BLINEBRY/TUBB/DRINKARD	194880			127300		1785	1455
	3002511863 32.0922279		32 255	37E	A	660N	660E	LEA	NM	DEVONIAN	1/2/1900		17244 534			476	1133
STATE NJ A #001	3002511398 32.1647491		2 255	37E	A	663N	660E	LEA	NM	DEVONIAN	105350		1,1,1,1	59300		660	4950
COPPER #001	3002511818 32.0994835		28 255	37E	J.	19805	1981E	LEA	NM	DEVONIAN	27506			15270		1089	1079
	3002511863 32.0922279		32 25S	37E	А	660N	660E	LEA	NM	DEVONIAN	158761						
SOUTH JUSTIS UNIT #018	3002511565 32.1248627		13 25S	37E	N	660S	1980W	LEA	NM	ELLENBURGER	1/2/1900 7.1 121530		5680 126	6 72233		381	2620
A B COATES D #003	3002511748 32.1112633		24 25S	37E	N	9905	2310W	LEA	NM	ELLENBURGER	91617			57190		832	1387
SOUTH JUSTIS UNIT #024	3002511774 32.1040077		25 25S	37E	Н	1650N	660E	LEA	NM	ELLENBURGER	5/21/1959 7.6 99800			60300		195	1650
SOUTH JUSTIS UNIT #024	3002511774 32.1040077		25 25S	37E	Н	1650N	660E	LEA	NM	ELLENBURGER	5/25/1959 7.6 98300			59400		189	1650
LEARCY MCBUFFINGTON #008	3002511569 32.1239548		13 255	37E	N	330S	1980W	LEA	NM	FUSSELMAN	1/2/1900 7.6 67909		2603 68			742	2489
STATE Y #009	3002511777 32.1058197		25 25 S	37E	А	990N	990E	LEA	NM	FUSSELMAN	3/17/1961 7.3 219570			129000		960	4630
STATE Y #009	3002511777 32.1058197		25 25S	37E	А	990N	990E	LEA	NM	FUSSELMAN	3/18/1961 6.8 163430			96000		290	3780
WESTATES FEDERAL #004		-103.1241226	1 258	37E	E	1980N	330W	LEA	NM	FUSSELMAN	6/17/1961 6 80880			46200		340	3050
			l .							•			•			· L	

Produced Water Analysis - Surrounding Areas Sholes Deep SWD #3

WESTATES FEDERAL #004	3002511389 32.1	161129	-103.1241226	1 258	37E	E	1980N	330W	LEA	NM	FUSSELMAN	84900			48600	840	2650
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 258	37E	E	1980N	330W	LEA	NM	FUSSELMAN	72200			41000	370	2960
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 255	37E	E	1980N	330W	LEA	NM	FUSSELMAN	80900			46200	340	3050
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 255	37E	E	1980N	330W	LEA	NM	FUSSELMAN	77600			44000	550	3240
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 255	37E	E	1980N	330W	LEA	NM	FUSSELMAN	135000			77000	650	5810
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 255	37E	E	1980N	330W	LEA	NM	FUSSELMAN	114000			65000	280	5110
WESTATES FEDERAL #004	3002511389 32.1	L61129	-103.1241226	1 258	37E	E	1980N	330W	LEA	NM	FUSSELMAN	135000			77000	500	5320
WESTATES FEDERAL #008	3002511393 32.16	521208	-103.1241226	1 258	37E	E	1620N	330W	LEA	NM	FUSSELMAN	91058			51020	376	4783
WESTATES FEDERAL #008	3002511393 32.16	521208	-103.1241226	1 255	37E	E	1620N	330W	LEA	NM	FUSSELMAN	86847			50450	363	2544
SOUTH JUSTIS UNIT #016F	3002511556 32.13	312065	-103.1187744	13 255	37E	F	2310N	1980W	LEA	NM	FUSSELMAN	57675			34030	595	1211
SOUTH JUSTIS UNIT #023C	3002511760 32.10	067276	-103.1184616	25 25S	37E	С	660N	2080W	LEA	NM	FUSSELMAN	63817			35870	360	3442
CARLSON A #002	3002511764 32.10	003838	-103.1113434	25 25S	37E	I	2310S	990E	LEA	NM	FUSSELMAN	208280			124000	510	3400
CARLSON B 25 #004	3002511784 32.0	96756	-103.1113434	25 25S	37E	Р	990S	990E	LEA	NM	FUSSELMAN	184030			112900	68	1806
LEARCY MCBUFFINGTON #007	3002511568 32.12	248627	-103.1219788	13 255	37E	M	660S	990W	LEA	NM	GLORIETA	1/2/1900 7.7 55190	2451	860	31603	1158	1804
LEARCY MCBUFFINGTON #007	3002511568 32.12	248627	-103.1219788	13 25S	37E	M	660S	990W	LEA	NM	GLORIETA	55183			31600	1158	1804
CARLSON FEDERAL #001	3002511574 32.13	330185	-103.1198425	13 25S	37E	F	1650N	1650W	LEA	NM	GLORIETA	113731			67250	280	3013
CARLSON FEDERAL #001	3002511574 32.13	330185	-103.1198425	13 255	37E	F	1650N	1650W	LEA	NM	GLORIETA	101412			60660	963	2996
LANGLIE FEDERAL #001	3002511592 32.12	293945	-103.1273041	14 25S	37E	I	2310S	660E	LEA	NM	GLORIETA	113937			67370	280	3018
LANGLIE FEDERAL #001	3002511592 32.12	293945	-103.1273041	14 25\$	37E	I	2310S	660E	LEA	NM	GLORIETA	113817			67250	274	3067

Sholes Deep SWD No. 3 - Additional Notice List Lea County, NM OWL SWD Operating, LLC

Date Delivered
5/4/2020
3/4/2020
5/4/2020
3/4/2020
5/4/2020
3/4/2020
5/4/2020
3/4/2020
_ _ _

I certify that the above parties were noticed on 4/30/2020 for the Sholes Deep SWD No. 3 application by mailing them a copy of the Form C-108

Sincerely,

Ramona K. Hovey

Sr. Petroleum Engineer / Lonquist & Co., LLC

Kamone MHowey

For OWL SWD Operating, LLC

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