

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources  
**OIL CONSERVATION DIVISION**  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-103  
 Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-24144
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Probitry SWD, LLC		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 7307, Midland, TX 79708		7. Lease Name or Unit Agreement Name Pardue 30 Com
4. Well Location Unit Letter E : 1980 feet from the North line and 983 feet from the West line Section 30 Township 23-S Range 28-E NMPM County Eddy		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3089.3' GR		9. OGRID Number 296278
		10. Pool name or Wildcat SWD; Bell Canyon-Cherry Canyon (96802)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>	Plug Back, Perf, Test & Configure for SWD <input checked="" type="checkbox"/>		
OTHER:		OTHER:	<input type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. **Conduct Safety Meeting Prior to Start of All Operations SWD per OCD Permit SWD-1585**

- 1) MIRU WSU, reverse unit and associated equipment. Install B.O.P.
- 2) Kill well w/ 10# brine; POOH w/ Tbg.
- 3) Set CIBP approx. 12,000' and cap w/ 35' cmt.
- 4) Run CBL from 5100' to 2000' to determine and TOC. (\*See Atchd Request & Approval) If req'd, perf and sqz as necessary.
- 5) Run GR/CNL logs across permitted interval of interest from 4590' to 2500'.
- 6) Load hole w/ min 9.5# plugging mud to 4800'. Spot cement plugs per appr'd C-101 1/20/17 @ 10300'; 9800'; 5900'.
- 7) Set CIBP @ 4800', cap w/ 35' cement.
- 8) RU Wireline & Perforate selected intervals as determined from porosity logs.
- 9) Test hydrocarbon potential; sample produced water for TDS / Chlorides and submit results to OCD.
- 10) RIH w/ workstring; Acidize w/ 10,000-15,000 gals 15% HCl. Swab and circulate hole clean. POOH.
- 11) RIH w/ packer or equivalent on 3.5" IPC or equiv. tubing. Set PKR @ 2405' (within 100' of top perf as shot). Submit C-105.
- 12) Pump clean fresh water containing corrosion inhibitor, biocide and oxygen scavenger down annulus.
- 13) Prepare to run MIT test and notify OCD to witness - minimum 24 hours in advance.
- 14) Build injection facility (concurrent activity).
- 15) Start water disposal. Limit injection pressure to 500 psi.

SEE ATTACHMENTS.

Spud Date:  
[Workover]

4/07/2017 (Dpnding on Rig avblty)

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ben Stone TITLE Agent for Probitry SWD, LLC DATE 4/05/2017

Type or print name Ben Stone E-mail address: ben@sosconsulting.us PHONE: 903-488-9850

For State Use Only

APPROVED BY: Raymond W. Rodary TITLE Geologist DATE 4-7-2017  
 Conditions of Approval (if any):

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
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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**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 18, 2013

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address <b>Probitry SWD, LLC</b> <b>P.O. Box 7307, Midland, TX 79708</b>		<sup>2</sup> OGRID Number <b>296278</b>
		<sup>3</sup> API Number <b>30-015-24144</b>
<sup>4</sup> Property Code <b>TBD</b>	<sup>5</sup> Property Name <b>Pardue SWD</b>	<sup>6</sup> Well No. <b>1</b>

**<sup>7</sup> Surface Location**

UL - Lot	Section	Township	Range	Lot Ida	Feet from	N/S Line	Feet From	E/W Line	County
E	30	23-S	28-E		1980	North	983	West	Eddy

**<sup>8</sup> Proposed Bottom Hole Location**

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

**<sup>9</sup> Pool Information**

<sup>10</sup> Pool Name <b>SWD; Bell Canyon-Cherry Canyon</b>	<sup>11</sup> Pool Code <b>96802</b>
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**Additional Well Information**

<sup>12</sup> Work Type <b>P</b>	<sup>13</sup> Well Type <b>S</b>	<sup>14</sup> Cable/Rotary <b>R</b>	<sup>15</sup> Lease Type <b>P</b>	<sup>16</sup> Ground Level Elevation <b>3089.3'</b>
<sup>17</sup> Multiple <b>N</b>	<sup>18</sup> Proposed Depth <b>4680' PBTD</b>	<sup>19</sup> Formation <b>Cherry Canyon</b>	<sup>20</sup> Contractor <b>TBD</b>	<sup>21</sup> Spud Date <b>2/15/2017</b>
<sup>22</sup> Depth to Ground water <b>~88'</b>		<sup>23</sup> Distance from nearest fresh water well <b>~2150'</b>		<sup>24</sup> Distance to nearest surface water <b>3.5 miles from Pecos River</b>

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

**<sup>25</sup> Proposed Casing and Cement Program**


Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	48.0#	568'	625 'C'	Circ. to Surf.
Intermediate	12.5"	9.625"	47.0#	2330'	803 'C'	Circ. to Surf.
Production	8.5"	7.0"	23.0#	10500'	1375 'C'	Circ. to Surf. (Calc'd)

**Casing/Cement Program: Additional Comments**

**4.5", 13.5# LNR, 10195'-12678' w/ 375 sx to TOC.**

**<sup>26</sup> Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Hydraulic or Man./ Dbl. Blind Ram	3000 psi	5000 psi	Shaffer/ Hydril or equivalent

<sup>27</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: 

Printed name: **Ben S Tope**

Title: **Agent for Probitry SWD, LLC**

E-mail Address: **ben@sosconsulting.us**

Date: **1/11/2017**

Phone: **903-488-9850**

**OIL CONSERVATION DIVISION**

Approved By:

Title:

Approved Date: **1-20-2017**

Expiration Date: **10-1-2017**

Conditions of Approval Attached ☒



## PROPOSED CONFIGURATION

ACTIVE - ON P&A LIST  
Pardue 30 SWD Well No.1

API 30-015-24144  
1980' FNL & 983' FWL, SEC. 30-T23S-R28E  
EDDY COUNTY, NEW MEXICO

Spud Date: 4/21/1981  
Config Date: ~2/15/2017

SWD-1985 - SWD; Bell Canyon-Cherry Canyon (98902)

Annulus Monitored  
or open to atmosphere

Injection Pressure Regulated  
and Volumes Reported  
500 psi Max Surface  
(0.2 psi/ft)

### Surface Casing

13.375", 48.0# Csg. (17.5" Hole) @ 588'  
625 ex - Circulated to Surface

### Probity SWD, LLC

#### Configure for SWD as follows:

Pull Prod TBG & PKR - Set 4.5" CIBP @ 12,050' w/ 35' Cmt.  
Spot Cmt Plugs as illustrated to Seal 4.5" Completion.  
Set 7.0" CIBP @ 10,100' w/ 35' Cmt Cpl.  
Spot Cmt Plugs as illustrated Across Adjacent Formations.  
Set 7.0" CIBP @ 4715' w/ 35' Cmt Cap PBTD @ ~4680'.  
Perforate Selected Intervals from Log Analysis in  
Bell Canyon & Cherry Canyon Formations.  
Max Top 2500' to Max Bottom 4390'  
RM w/ 3.5" TBG & Set PKR @ 2400'+  
MIT to 300 psi / 30 mins. - OCD to Witness.  
Install Wellhead and Equipment and Commence Injection.

3.5" IC TBG Set in PKR @ 2400'

PACKER MUST BE BELOW  
2400'

### Intermediate Casing

9.625", 47.0# Csg. (12.25" Hole) @ 2330'  
1850 ex - Circulated to Surface

Set CIBP @ 4715' w/ 35' Cmt

Spot 30 ex Cmt  
5900'-6000'

Spot 30 ex Cmt  
9800'-9700'

Set CIBP @ 10,100' w/ 35' Cmt

Spot 45 ex Cmt  
10,300'-10,100'

Set CIBP @ 12,050' w/ 35' Cmt

Formation Fluids

OTD @ 12678'

### Production Casing

7.0", 23.0# Csg (8.5" Hole) @ 10500'  
1375 ex Cts 'H' Neat - Calc'd to Circ. - N/R

### Production Liner

4.5", 13.5# Csg (6.125" Hole) @ 10195'-12678'  
375 ex Cts 'H' - TOC @ TOL

Perfs: 12070'-12160'

Sqzd Perfs: 12247'-345'

Drawn by Ben Stone, Rev'd 1/19/2017

SOS Consulting, LLC



March 20, 2017

New Mexico Oil Conservation Division  
811 S. First Street  
Artesia, New Mexico 88210

Attn: Mr. David Catanach, Director

*Re: Variance Request for Probity SWD, LLC's Pardue 30 Com No.1 SWD as Permitted with  
Conditions by Division Order SWD-1585.*

Dear Mr. Catanach,

Probity SWD, LLC is preparing to configure its Pardue 30 Com Well No.1 as a salt water disposal well as permitted by SWD-1585 on October 1, 2015. The subject well was a non-economic deep gas well with the perforated interval being below 12,000 feet covered by a 4-1/2" liner with the top of liner at 10,195 feet. The permitted interval for disposal is into the Bell Canyon and Cherry Canyon formation from 2500 feet to 4590 feet.

SWD-1585 came with the condition of running a cement bond log from the top of the 4-1/2 inch liner continuing to whatever depth the top of cement is determined to be behind the 7-inch production casing string. The well file indicates that the 7-inch casing was set with 1375 sacks of Class H Neat cement. In an 8-1/2" hole, this volume was apparently calculated to push well above the intermediate casing shoe depth of 2330 feet although, the top of cement was not reported nor did it circulate. We therefore understand the need to determine if adequate cement exists behind as well as above and below the proposed interval. However, with the long extent of pipe below the proposed interval down to the original producing interval, it's difficult to see that there is a compelling reason to log such a long interval.

We would therefore like to propose the following (rigged up, tubulars pulled and well killed):

- 1) Set a cast iron bridge plug to isolate the perforations below 12,000 feet and cap with 35 sacks of cement.*
- 2) Run a cement bond log from approximately 5100 feet to 2000 feet. This would determine the cement bond approximately 500 feet ABOVE and BELOW the proposed interval. CBL logging intervals may be extended after initial evaluation.*
- 3) Once the cement issue is resolved by logging and squeezing if necessary, continue with configuring the wellbore by loading the hole with plugging mud (minimum 9.5#), cement plugs will be spotted at the depths previously approved on the C-101 dated January 11, 2017 to properly plug the lower portion of the well.*
- 4) Set CIBP at 4750 feet and cap with 35 sacks cement; finish with usual SWD set up and configuration per SWD-1585 and the C-101; perforate & acidize; run packer and tubing, conduct mechanical integrity test with OCD to witness, etc.*

We believe that this proposal adequately ensures that fluid migration behind pipe will not occur above or below the intended interval.

This is the only variance Probity is requesting. We too would like to make sure this is a quality SWD and that integrity is maintained for all aspects of the well. Probity's intent is to make prudent decisions based on good data and sound judgement. The proposed variance described accounts for a risk-based analysis of the situation and provides for the contingency of logging a more extensive interval in the event it is necessary.

I respectfully request that this variance be granted swiftly and if you or your staff require additional information or have any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone", written in a cursive style.

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Probity SWD, LLC

Attachments: SWD-1585; C-101  
Cc: Project file

# Administrative Order SWD-1585: Request for Change in Conditions of Approval

Goetze, Phillip, EMNRD [Phillip.Goetze@state.nm.us]

Sent: 4/5/2017 10:45 AM

To: "Ben Stone (ben@sosconsulting.us)" <ben@sosconsulting.us>

Cc: "Podany, Raymond, EMNRD" <Raymond.Podany@state.nm.us>, "Inge, Richard, EMNRD" <richard.inge@state.nm.us>, "Catanach, David, EMNRD" <David.Catanach@state.nm.us>, "Jones, William V, EMNRD" <WilliamV.Jones@state.nm.us>

RE: Administrative Order SWD-1585; Pardue 30 Com. SWD No. 1 (30-015-24144); UL E, Sec 30, T23S, R28E, NMPM

Mr. Stone:

The Division is in receipt of your client's request for the change in the condition of the administrative order regarding the logging of cement for the referenced well. I have discussed this request with the District Geologist along with staff of the Engineering Bureau and the Director. The Division shall approve Probity's request for logging the only the injection interval as long as the cement bond log is of good quality and includes the top of cement for the 7-inch casing. This log would provide documentation of the well's integrity should concerns be raised later regarding this well's disposal operation in the Delaware Mountain Group. All other conditions and requirements as provided in the administrative order (including proposed re-entry and final completion of the well) remain in full force and effect, and are subject to approval by the District prior to implementation.

Since an amended order will not be issued, this e-mail correspondence will serve as approval of the change for the logging requirement and shall be made part of the administrative record (well file and administrative order). Please contact me with any questions regarding this matter. PRG

Phillip Goetze, PG  
Engineering Bureau, Oil Conservation Division  
New Mexico Energy, Minerals and Natural Resources Department  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Direct: 505.476.3466  
E-mail: [phillip.goetze@state.nm.us](mailto:phillip.goetze@state.nm.us)

