Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
09/26/2017	PRG	IPI	pPRG1730533477

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Probity SWD LLC **OGRID Number:** 296278
Well Name: Pardue 30 Com SWD No. 1 **API:** 30-015-24144
Pool: SWD; Bell Canyon - Cherry Canyon **Pool Code:** —

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for (A)
A. Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP(PROJECT AREA) ☐ NSP(PRORATION UNIT) ☐ SD

B. Check one only for (I) or (II)
(I) Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
(II) Injection - Disposal - Pressure Increase - Enhanced Oil Recovery SWD-1585
☐ WFX ☐ PMX ☐ SWD ☑ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete Packet Checklist

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☐ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☐ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☐ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☑ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ben Stone, SOS Consulting, Agent
Print or Type Name

See attached e-mail
Signature

September 26, 2017
Date

Phone Number

e-mail Address

September 26, 2017

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

Attn: Mr. Phillip Goetze, Engineering Bureau

Re: Request of Probity SWD, LLC for an injection pressure increase on Pardue 30 Com SWD No.1 SWD located in Section 30, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

Dear Mr. Goetze,

Probity SWD, LLC recently conducted a step rate test on the subject well, permitted by SWD-1585 and is authorized for a surface injection pressure of 500 psi. After configuring and testing the well and otherwise preparing this facility, daily disposal operations at the site are imminent.

The step rate test was conducted on September 19, 2017 QES Wireline Company. This test was routine in application and the steps were even spaced in 30 minute increments and at 20% rate steps. The test went smoothly with no equipment issues and an adequate supply of water. The test concluded with a final step at 13.2 bpm and surface pressure of 1740 psi - a formation parting or fracture was never established in the course of the test. Pressure fell off quickly upon conclusion of the test. *(See attachments...)*

Other step rate tests on DMG salt water disposal wells in the area have resulted in increased pressures ranging from 800 psi to 1400 psi. In reviewing the SWD Workgroup's DMGRA map, the subject well is just outside the risk boundary but inside the 2 mile buffer area. There is no production in the immediate vicinity that we believe would be adversely impacted by increasing the injection pressure on this well.

Based on the results of the step rate test, we hereby request that maximum permitted surface injection pressure be increased to 1400 psi, which is in line with an apparent northwest to southeast trend of increases to the north and northeast of this well. We would note that there are 2 wells to the north that are at 800 and 880 psi however; we believe that the test resulted in quality data and should be relied upon as supporting evidence for this increase.

Included in this request is a copy of the delivered step rate presentation from QES Wireline and a current wellbore schematic. I respectfully request that the approval of this injection pressure increase proceed swiftly and if you require additional information or have any questions, please do not hesitate to call or email me.

Best regards,

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

Cc: Project file

QES WIRELINE LLC

charles.dugger@qeslp.com

432-553-2118

QES Wireline Service ran a Step Rate Test on the Probity SWD Purdue 1 SWD using the EPA Step-Rate Test Procedure using SRO down-hole gauges. Tool placement was 2500', steps were 30 minutes each. Rates were .6, 1.2, 2.4, 3.6, 4.8, 6, 7.2, 8.4, 9.6, 10.8, 12, 13.2 BPM. Spartek Systems 1 ¼" 10K Sapphire Pressure gauges with SRO and battery backup were used for the test.

It is QES Wireline's opinion that no fracture of the well was indicated during the test. It is believed anomalies in the early points are due to displacing gas in production TBG, and produced fluid used in the early stages having a different weight than fluid used during the later stages of the job.

Sincerely,

Charles Dugger

Division Sales Representative

Q. E. S. Wireline LLC

(C) 432-553-2118

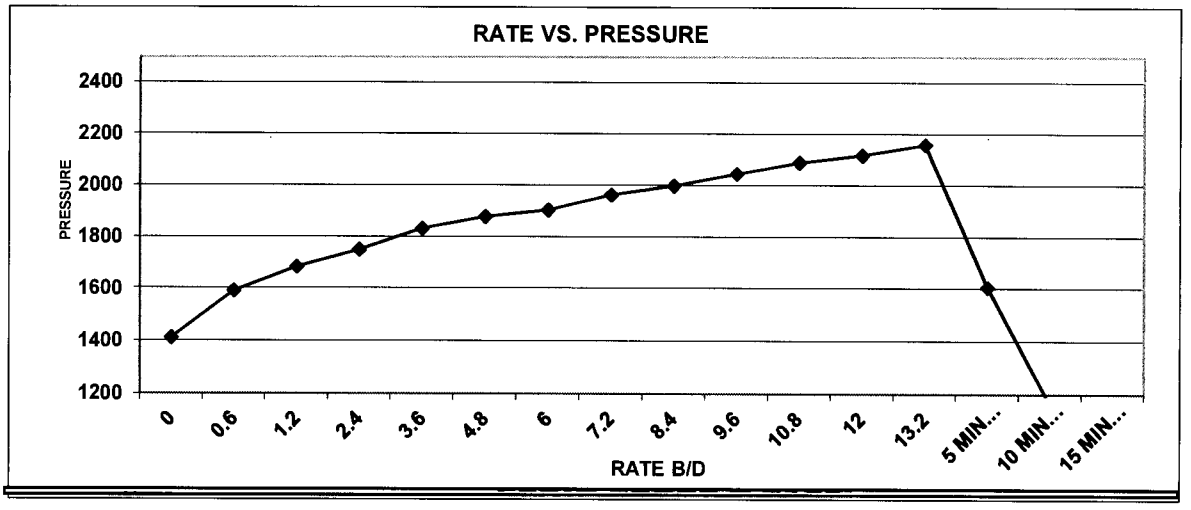
Charles.Dugger@QESLP.com

QES WIRELINE LLC

STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	9/19/2017	9:45 AM	1411	200	
0.6	3/22/2017	10:15 AM	1589	330	
1.2	3/22/2017	10:45 AM	1682	440	Changed to large pump
2.4	3/22/2017	11:15 AM	1749	510	
3.6	3/22/2017	11:45 AM	1831	645	
4.8	3/22/2017	12:15 PM	1877	725	
6	3/22/2017	12:45 PM	1903	815	
7.2	3/22/2017	1:15 PM	1962	975	
8.4	3/22/2017	1:45 PM	1997	1105	
9.6	3/22/2017	2:15 PM	2044	1225	
10.8	3/22/2017	2:45 PM	2088	1414	
12	3/22/2017	3:15 PM	2116	1565	
13.2	3/22/2017	3:45 PM	2157	1740	
5 MIN. FALLOFF	3/22/2017	3:50 PM	1604	492	
10 MIN. FALLOFF	3/22/2017	3:55 PM	1163	75	
15 MIN. FALLOFF	3/22/2017	4:00 PM	574	0	

Company:	Probity SWD	Recorded By:	T. STANCZAK
Well:	Purdue 1 SWD	Witnessed By:	
Field:	N/A	Truck Number:	104
County:	LEA	District:	LEVELLAND
State:	NM	Tool Number:	
Injector:	WATER	Test Type:	STEP RATE TESTS
Tubing Size:	3 1/2"	NO FRAC WAS ACHIEVED	
Seat Nipple Depth:	N/A		
Perforations:			
Plug Back Depth	N/A		



Step Rate Test Data

Well: Probity Purdue 1 SWD Date: 9/19/2017 Operator: Probity SWD

Step #1 Test Rate (5% of maximum rate) 0.6 (BBL/min)

Time (Min)	9:45	9:51	9:57	10:03	10:09	10:15
Pressure (psi)	1445	1520	1551	1568	1580	1589

Step #2 Test Rate (10% of maximum rate) 1.2 (BBL/min)

Time (Min)	10:15	10:21	10:27	10:33	10:39	10:45
Pressure (psi)	1589	1637	1654	1666	1675	1705

Step #3 Test Rate (20% of maximum rate) 2.4 (BBL/min)

Time (Min)	10:45	10:51	10:57	11:03	11:09	11:15
Pressure (psi)	1705	1735	1745	1740	1752	1773

Step #4 Test Rate (30% of maximum rate) 3.6 (BBL/min)

Time (Min)	11:15	11:21	11:27	11:33	11:39	11:45
Pressure (psi)	1773	1798	1807	1813	1829	1831

Step #5 Test Rate (40% of maximum rate) 4.8 (BBL/min)

Time (Min)	11:45	11:51	11:57	12:03	12:09	12:15
Pressure (psi)	1831	1852	1865	1869	1874	1876

Step #6 Test Rate (50% of maximum rate) 6.0 (BBL/min)

Time (Min)	12:15	12:21	12:27	12:33	12:39	12:45
Pressure (psi)	1876	1899	1897	1897	1901	1903

Step #7 Test Rate (60% of maximum rate) 7.2 (BBL/min)

Time (Min)	12:45	12:51	12:57	13:03	13:09	13:15
Pressure (psi)	1903	1951	1964	1961	1962	1962

Step #8 Test Rate (70% of maximum rate) 8.4 (BBL/min)

Time (Min)	13:15	13:21	13:27	13:33	13:39	13:45
Pressure (psi)	1962	1985	1988	1992	1994	1997

Step #9 Test Rate (80% of maximum rate) 9.6 (BBL/min)

Time (Min)	13:45	13:51	13:57	14:03	14:09	14:15
Pressure (psi)	1997	2034	2043	2046	2041	2044

Step Rate Test Data

Well: Probity Purdue 1 SWD Date: 9/19/2017 Operator: Probity SWD

Step #10 Test Rate (90% of maximum rate) 10.8 (BBL/min)

Time (Min)	14:15	14:21	14:27	14:33	14:39	14:45
Pressure (psi)	2044	2084	2086	2089	2092	2089

Step #11 Test Rate (100% of maximum rate) 12.0 (BBL/min)

Time (Min)	14:45	14:51	14:57	15:03	15:09	15:15
Pressure (psi)	2089	2123	2122	2113	2115	2117

Step #12 Test Rate (110% of maximum rate) 13.2 (BBL/min)

Time (Min)	15:15	15:21	15:27	15:33	15:39	15:45
Pressure (psi)	2117	2158	2158	2157	2158	2161

Fall Off (0% of maximum rate) 0.0 (BBL/min)

Time (Min)	15:45	15:48	15:51	15:54	15:57	16:00
Pressure (psi)	2161	1883	1604	1163	701	574

ISP: 1914 (PSI)

Test Run / Witnessed by: T. STANCZAK QES Wireline
M. Taylor Probity SWD

Step Rate Test

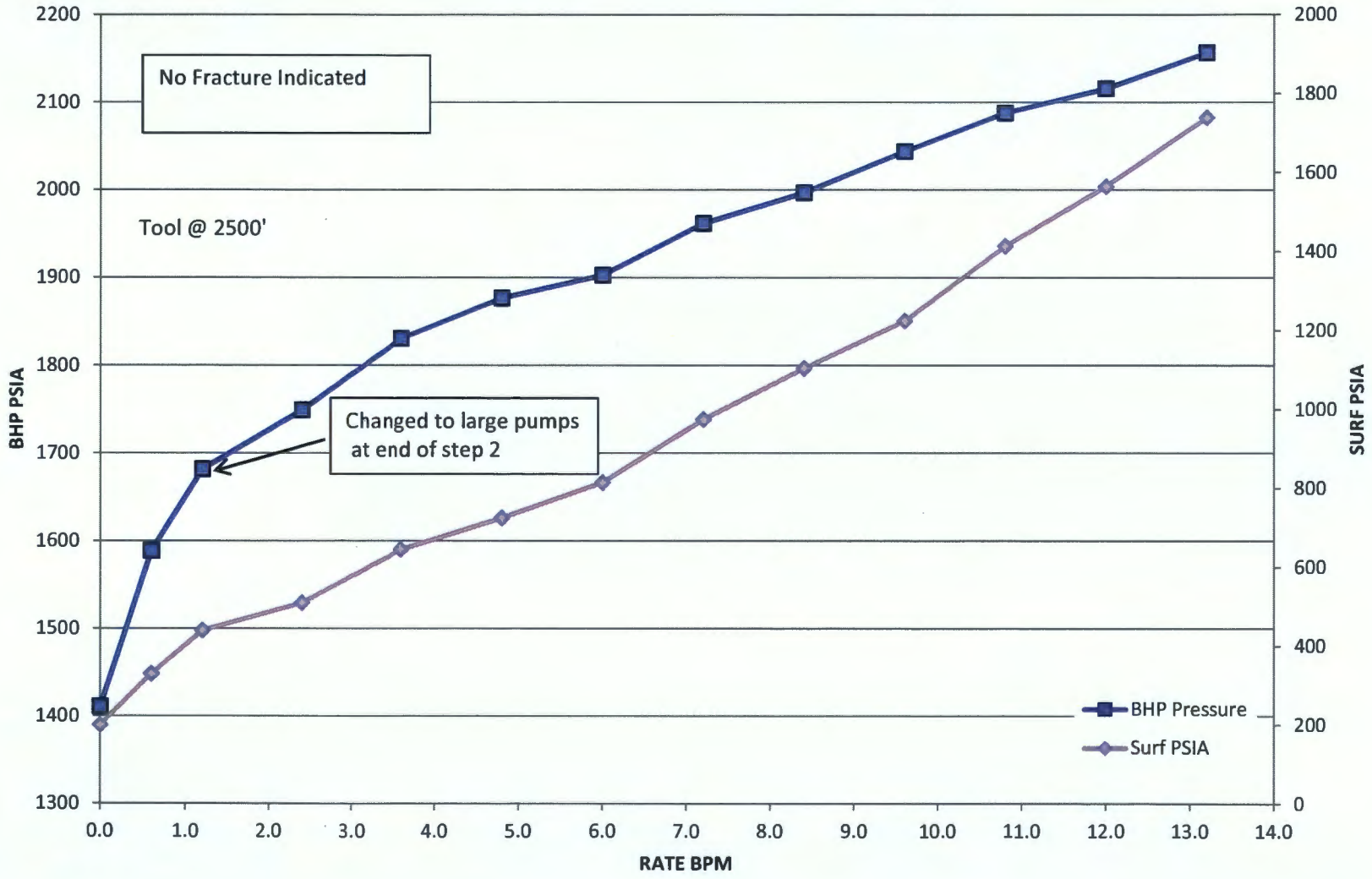
Probity SWD, LLC
Pardue 30 SWD No.1
Eddy County, NM
9/19/2017

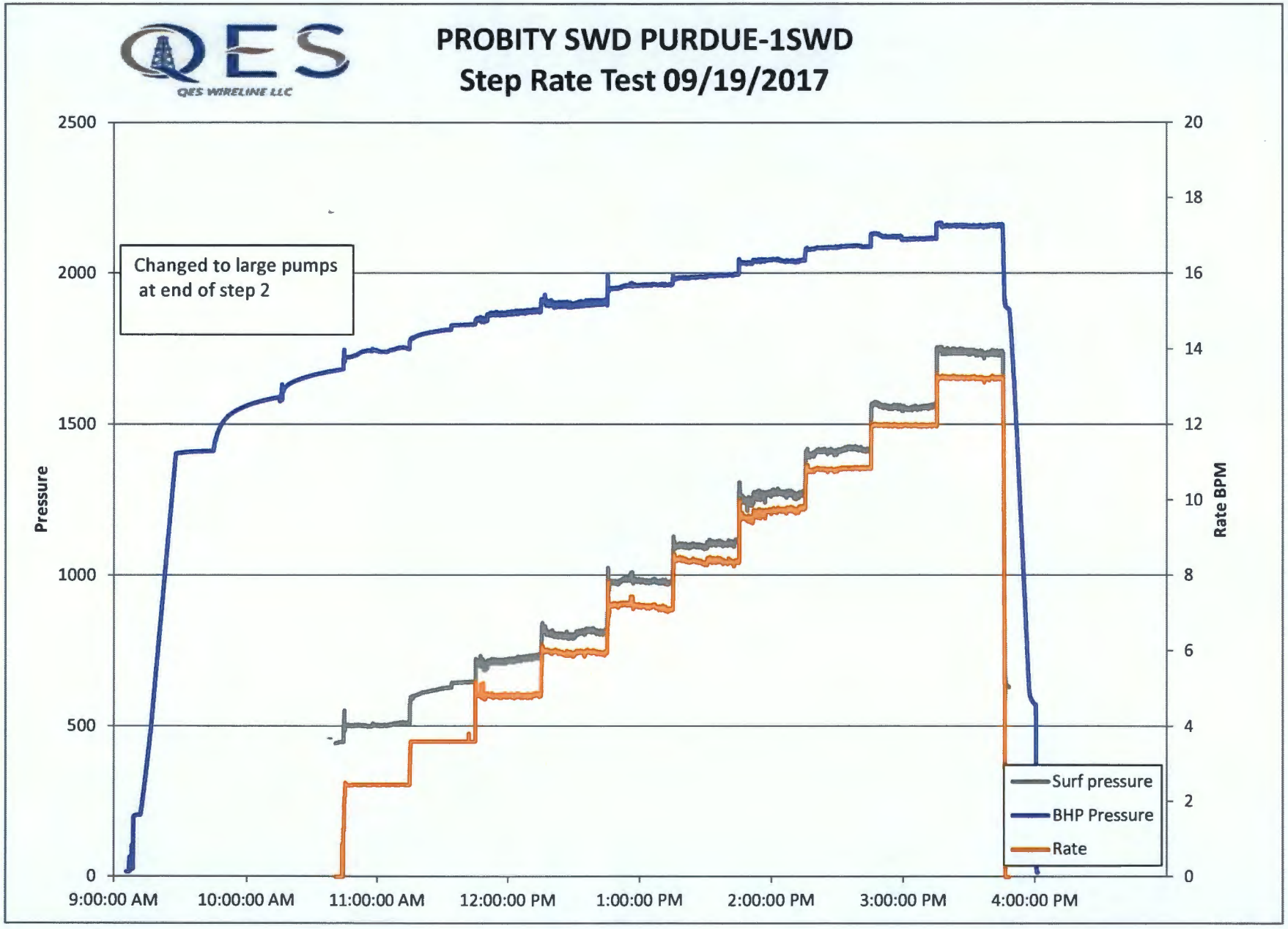
QES WIRELINE LLC

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	I. Pressure PSIA	Surf PSIA	Remarks
1	9:40 AM	9:45 AM	5	0.0	0	1411	200	
2	9:45 AM	10:15 AM	30	0.6	0.6	1589	330	Changed to large pump
3	10:15 AM	10:45 AM	30	1.2	0.6	1682	440	
4	10:45 AM	11:15 AM	30	2.4	1.2	1749	510	
5	11:15 AM	11:45 AM	30	3.6	1.2	1831	645	
6	11:45 AM	12:15 PM	30	4.8	1.2	1877	725	
7	12:15 PM	12:45 PM	30	6.0	1.2	1903	815	
8	12:45 PM	1:15 PM	30	7.2	1.2	1962	975	
9	1:15 PM	1:45 PM	30	8.4	1.2	1997	1105	
10	1:45 PM	2:15 PM	30	9.6	1.2	2044	1225	
11	2:15 PM	2:45 PM	30	10.8	1.2	2088	1414	
12	2:45 PM	3:15 PM	30	12.0	1.2	2116	1565	
13	3:15 PM	3:45 PM	30	13.2	1.2	2157	1740	
14		3:50 PM		0.0		1911		
15		3:55 PM		0.0		1351		
16		4:00 PM		0.0		689		

QES WIRELINE LLC

PROBITY SWD PURDUE-1SWD
Step Rate Test 09/19/2017




QES
QES WIRELINE LLC
PROBITY SWD PURDUE-1SWD
Step Rate Test 09/19/2017
Changed to large pumps at end of step 2
Pressure
Rate BPM
2500
2000
1500
1000
500
0
20
18
16
14
12
10
8
6
4
2
0
9:00:00 AM
10:00:00 AM
11:00:00 AM
12:00:00 PM
1:00:00 PM
2:00:00 PM
3:00:00 PM
4:00:00 PM
Surf pressure
BHP Pressure
Rate

CURRENT CONFIGURATION

(Post SWD Configuration Workover)

Pardue 30 SWD Well No.1

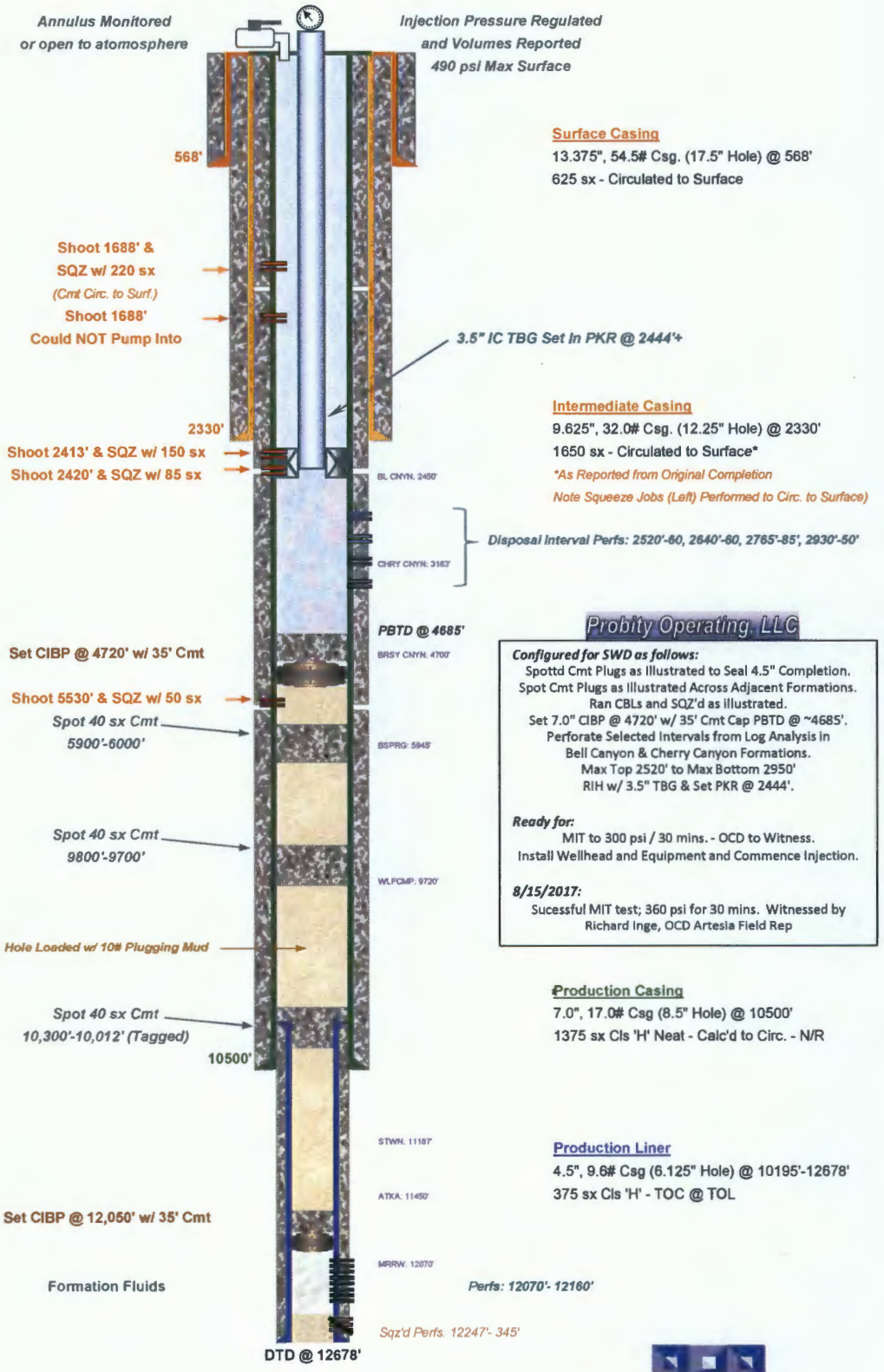
API 30-015-24144

1980' FNL & 983' FWL, SEC. 30-T23S-R28E

EDDY COUNTY, NEW MEXICO

Spud Date: 4/21/1981

Config Date: 7/19/2017



Surface Casing

13.375", 54.5# Csg. (17.5" Hole) @ 568'

625 sx - Circulated to Surface

Intermediate Casing

9.625", 32.0# Csg. (12.25" Hole) @ 2330'

1650 sx - Circulated to Surface*

**As Reported from Original Completion*

Note Squeeze Jobs (Left) Performed to Circ. to Surface)

Probity Operating, LLC

Configured for SWD as follows:

Spottd Cmt Plugs as Illustrated to Seal 4.5" Completion.
Spot Cmt Plugs as Illustrated Across Adjacent Formations.
Ran CBLs and SQZ'd as illustrated.
Set 7.0" CIBP @ 4720' w/ 35' Cmt Cap PBTD @ ~4685'.
Perforate Selected Intervals from Log Analysis in Bell Canyon & Cherry Canyon Formations.
Max Top 2520' to Max Bottom 2950'
RIH w/ 3.5" TBG & Set PKR @ 2444'.

Ready for:

MIT to 300 psi / 30 mins. - OCD to Witness.
Install Wellhead and Equipment and Commence Injection.

8/15/2017:

Sucessful MIT test; 360 psi for 30 mins. Witnessed by Richard Inge, OCD Artesia Field Rep

Production Casing

7.0", 17.0# Csg (8.5" Hole) @ 10500'

1375 sx Cls 'H' Neat - Calc'd to Circ. - N/R

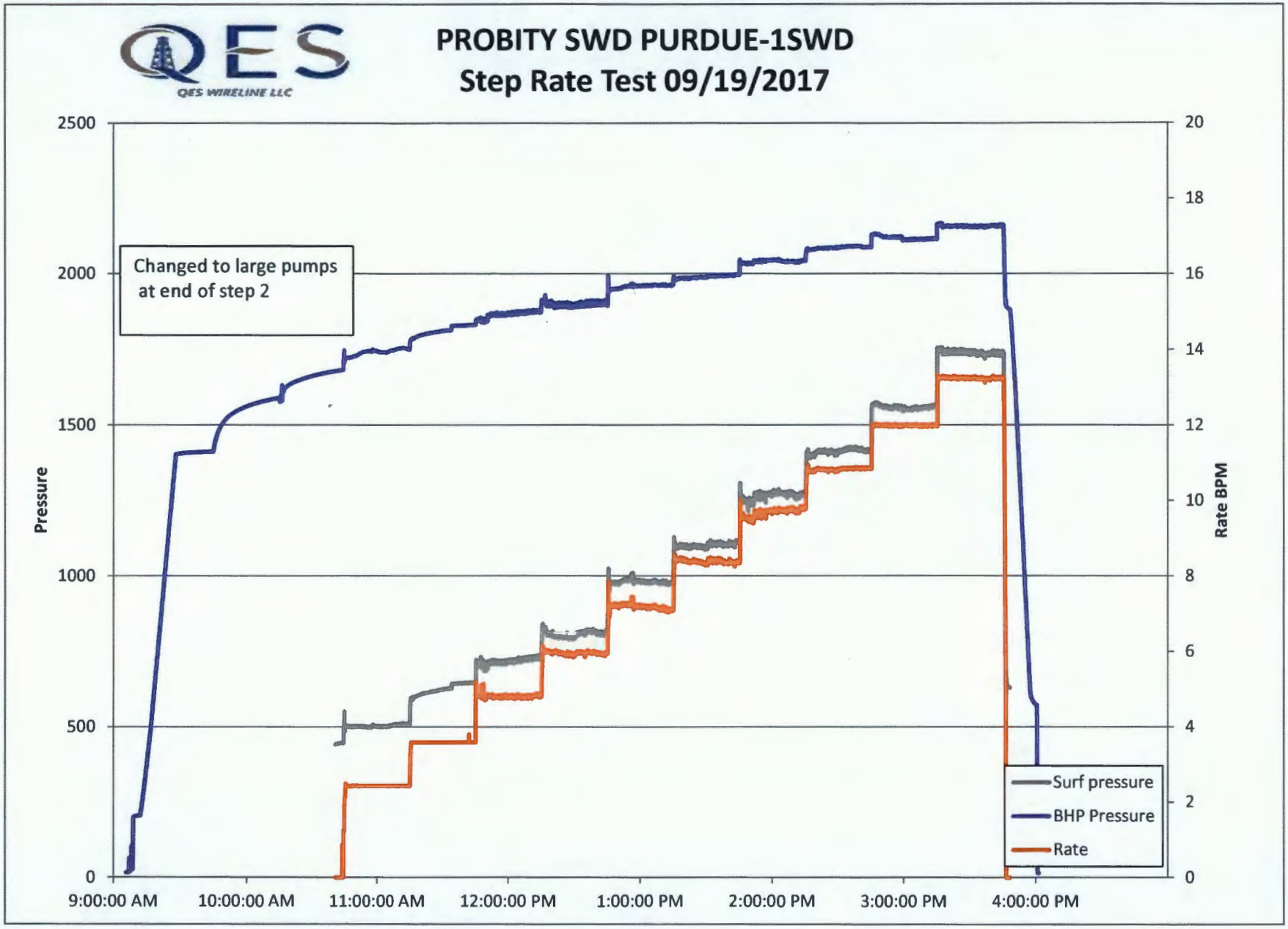
Production Liner

4.5", 9.6# Csg (6.125" Hole) @ 10195'-12678'

375 sx Cls 'H' - TOC @ TOL

SOS Consulting, LLC

Drawn by: Ben Stone, Updt: 9/07/2017


QES
QES WIRELINE LLC
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Pressure
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2500
2000
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1000
500
0
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12
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8
6
4
2
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11:00:00 AM
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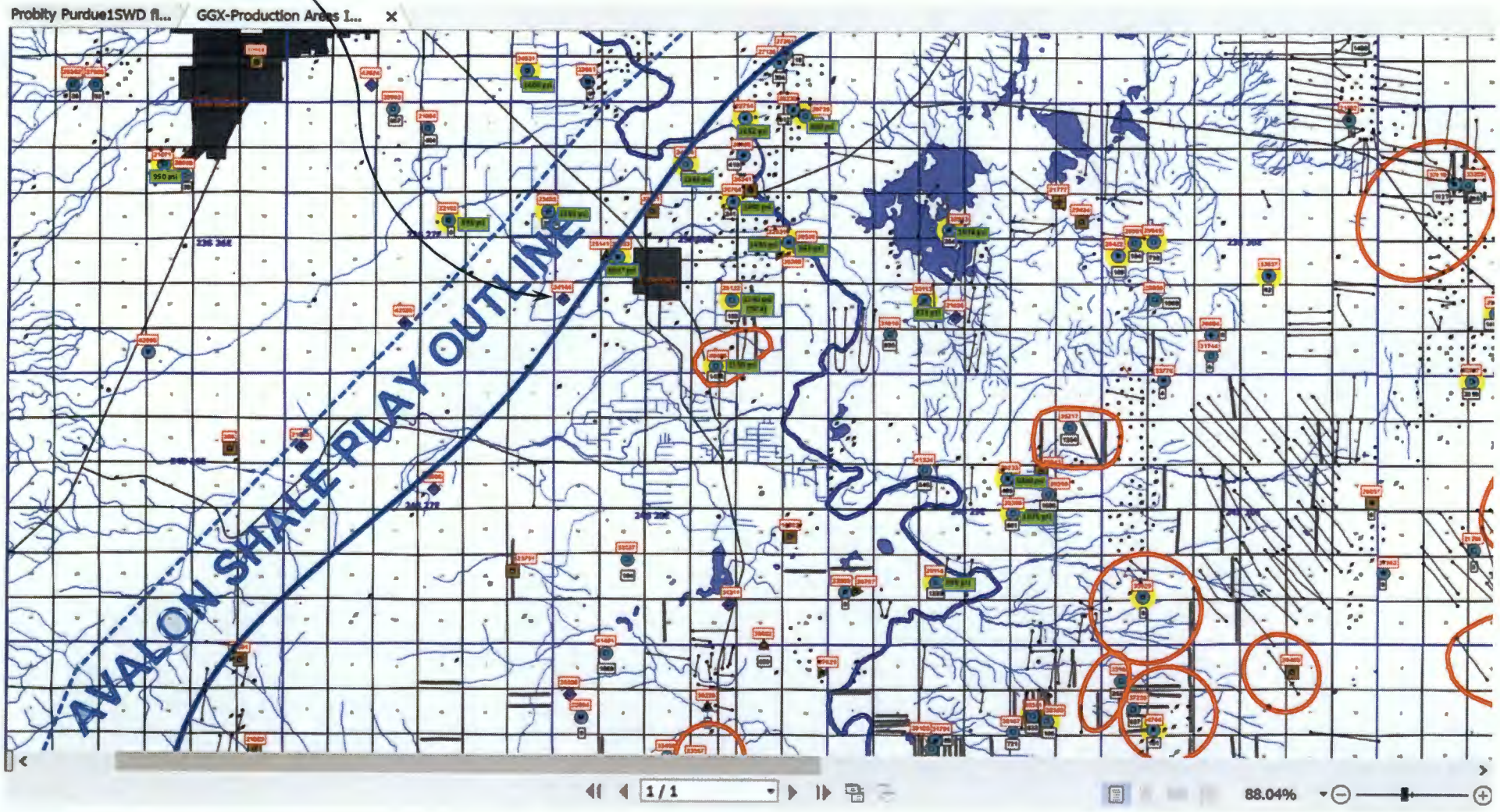
3:00:00 PM
4:00:00 PM
Surf pressure
BHP Pressure
Rate

Delaware Mountain Group Risk Area (DMGRA)

(Generated by Mewbourne Oil Co. for SWD Workgroup)

Pardue is just outside boundary but within 2 mile buffer. *(Yellow highlights are SWDs with Injection Pressure Increases Approved.)*



Goetze, Phillip, EMNRD

From: ben@sosconsulting.us
Sent: Tuesday, September 26, 2017 1:31 PM
To: Goetze, Phillip, EMNRD
Subject: IPI Request on Probity's Pardue SWD...
Attachments: Pardue_IPI-Rqst_AsSubmitted_20170926.pdf; Pardue relation to DMGRA_wIPIs.pdf

Phillip,

Attached is a request for an injection pressure increase on the Pardue 30 Com SWD No.1 as permitted by SWD-1585.

I've also attached a map separately which shows area IPIs on the DMGRA map generated by Mewbourne - though this may help or save you a little time.

Please let me know if additional information is needed or if you have any questions.

Thank you,
Ben

SOS Consulting, LLC
Ph. 903.488.9850 Fax 866.400.7628
P.O. Box 300 - Como, TX 75431

Visit us on the web at www.sosconsulting.us!

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(Post SWD Configuration Workover)

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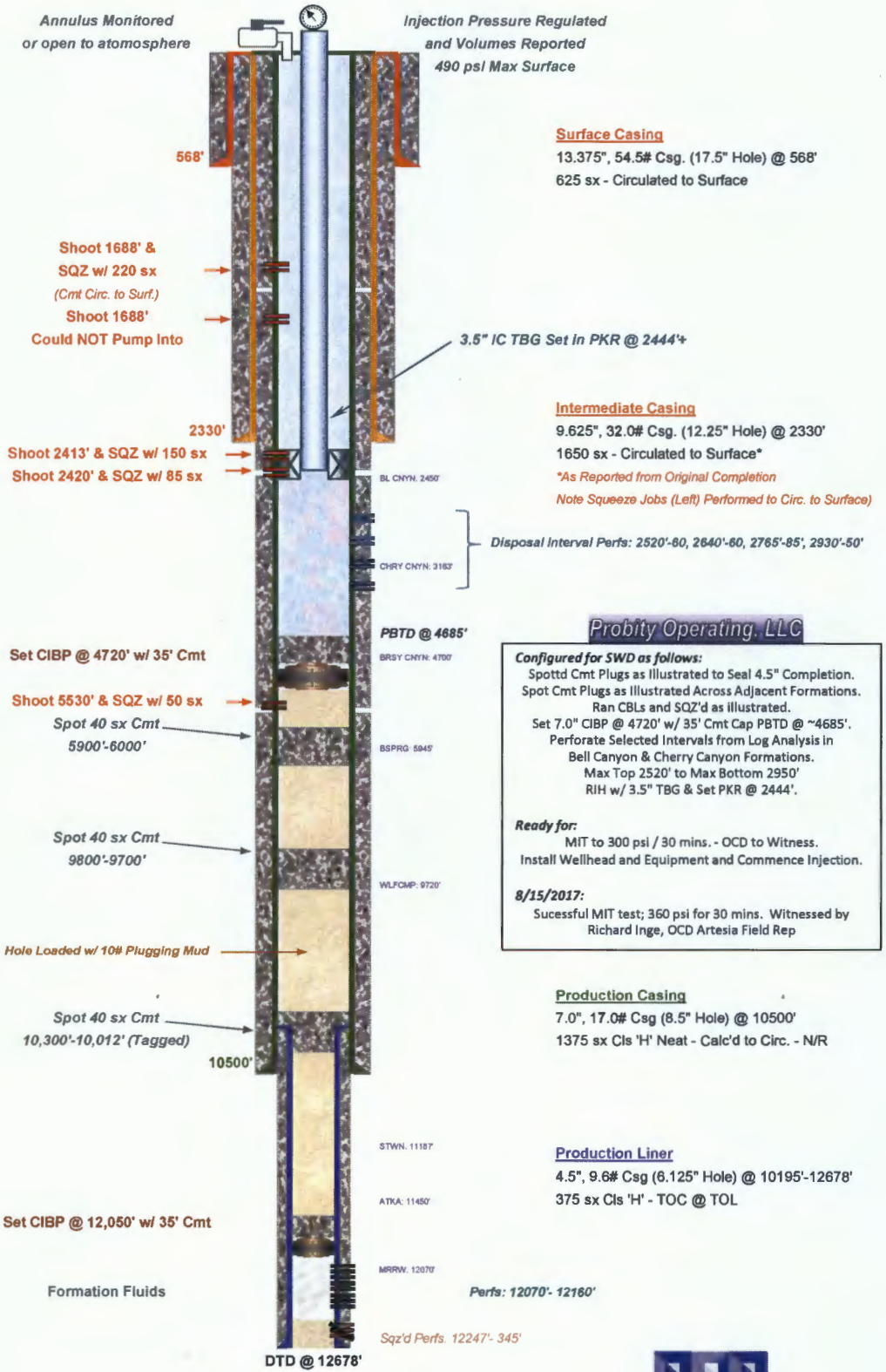

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625 sx - Circulated to Surface

Intermediate Casing
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**As Reported from Original Completion*
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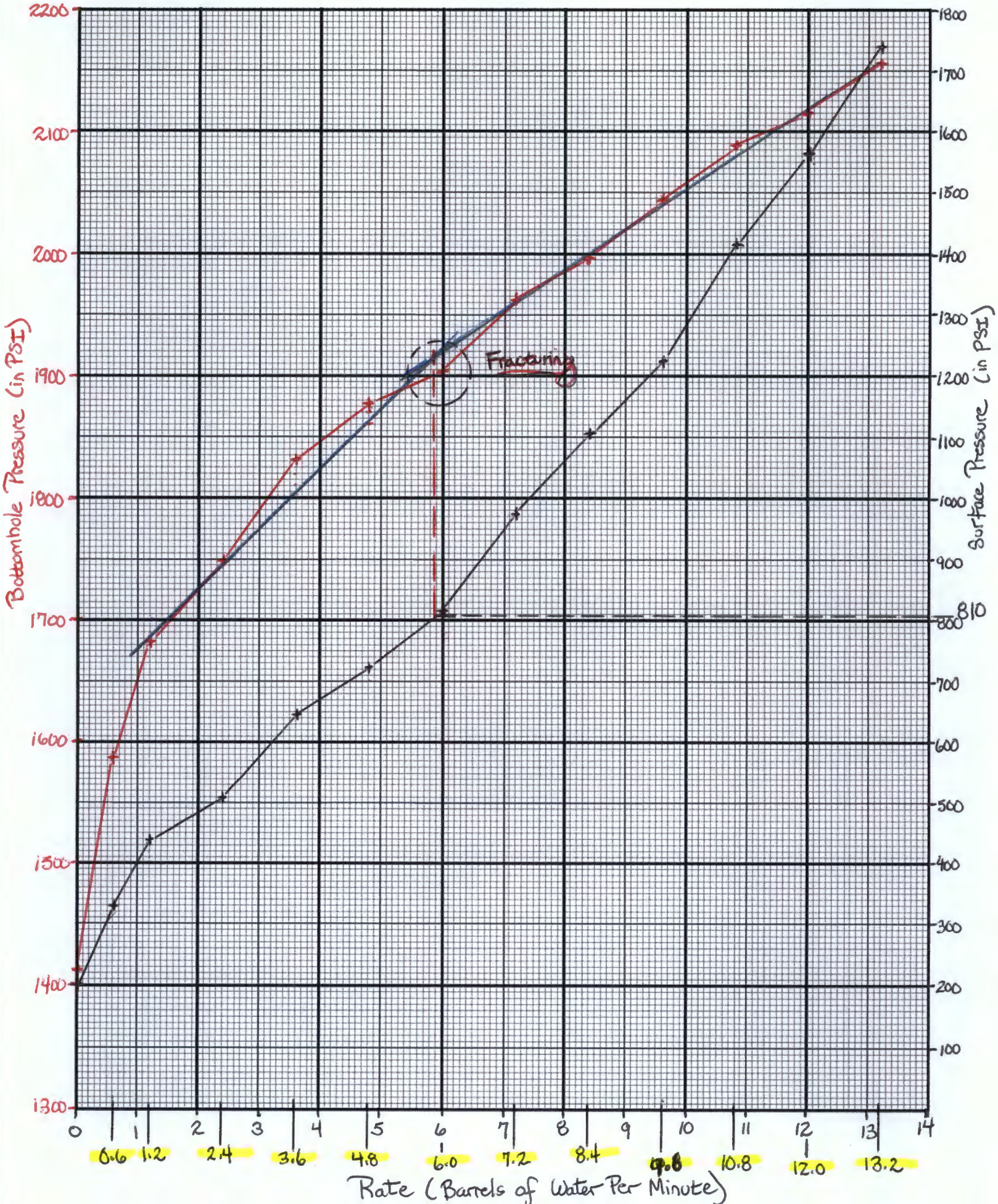
SOS Consulting, LLC
Drawn by: Ben Stone, Updt: 9/07/2017

Plot of 9/19/17 SRT Data - Pardue 30 SWD No.1 (30-015-24144)



QES WIRELINE LLC

STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
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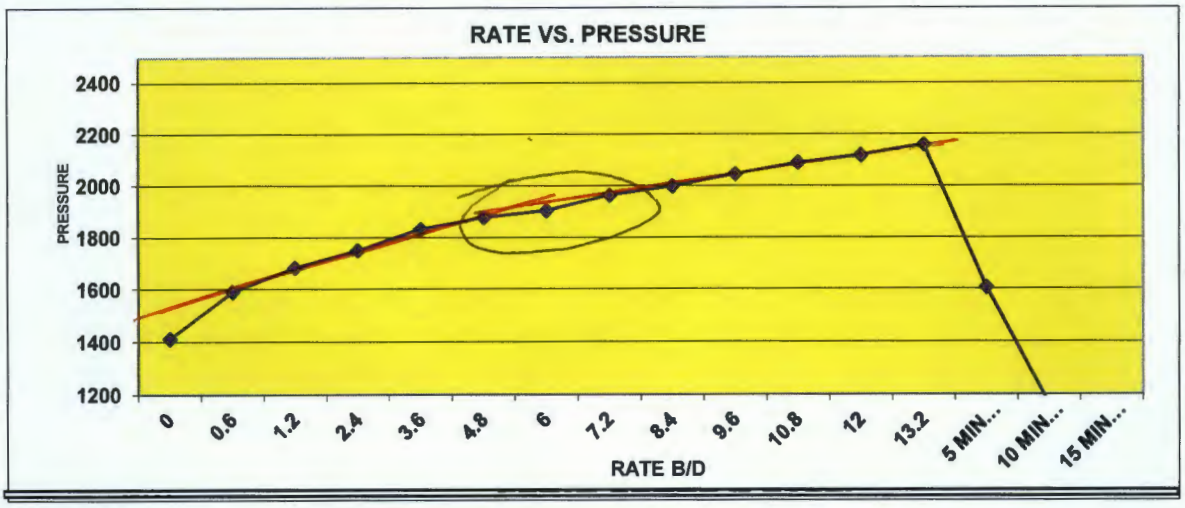
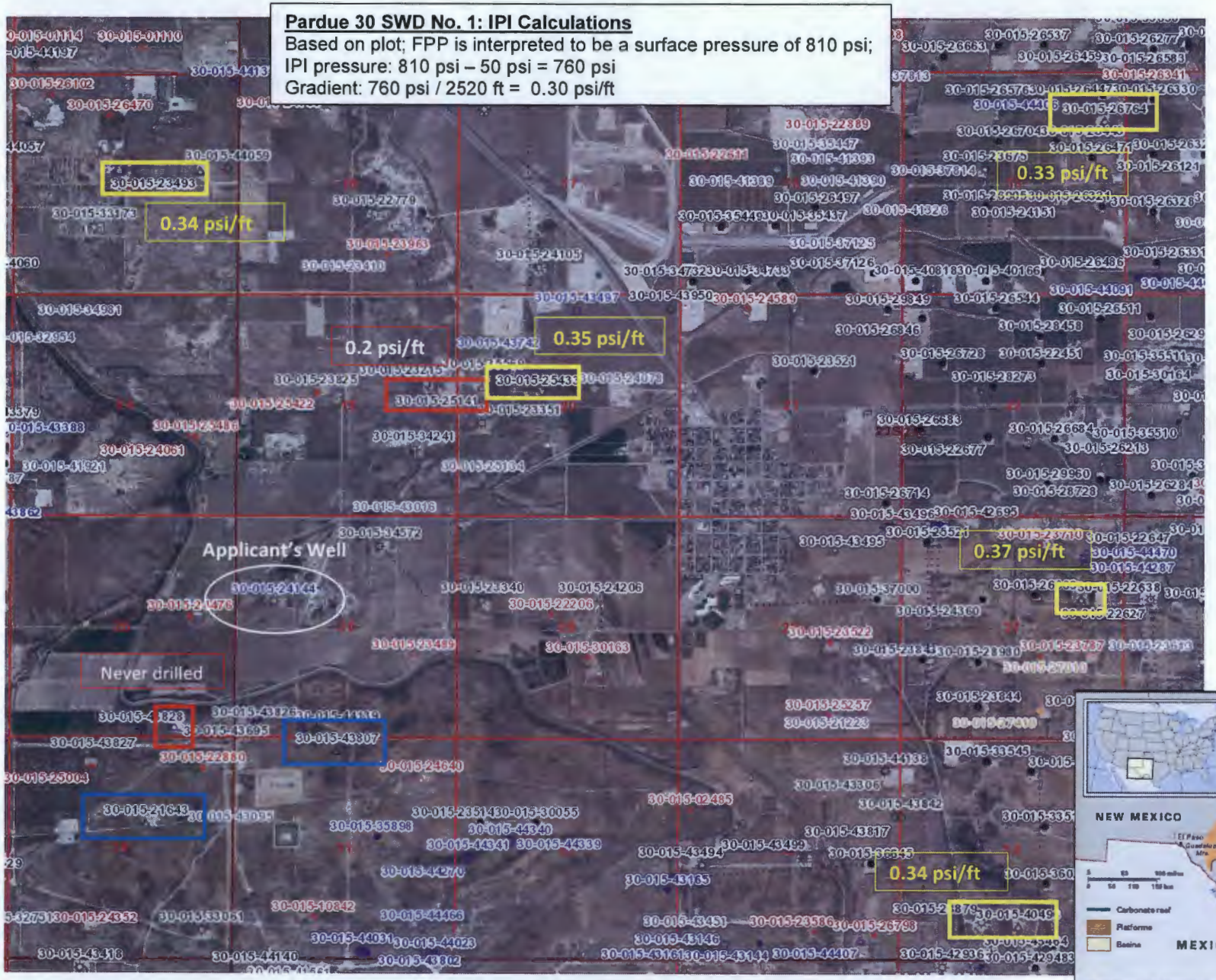
10 MIN. FALLOFF	3/22/2017	3:55 PM	1163	75	
15 MIN. FALLOFF	3/22/2017	4:00 PM	574	0	

Company:	Probity SWD	Recorded By:	T. STANCZAK
Well:	Purdue 1 SWD	Witnessed By:	
Field:	N/A	Truck Number:	104
County:	LEA	District:	LEVELLAND
State:	NM	Tool Number:	
Injector:	WATER	Test Type:	STEP RATE TESTS
Tubing Size:	3 1/2"	NO FRAC WAS ACHIEVED	
Seat Nipple Depth:	N/A		
Perforations:			
Plug Back Depth	N/A		



IPI Request for Pardue 30 SWD No. 1 (30-015-24144)

Pardue 30 SWD No. 1: IPI Calculations
Based on plot; FPP is interpreted to be a surface pressure of 810 psi;
IPI pressure: 810 psi – 50 psi = 760 psi
Gradient: 760 psi / 2520 ft = 0.30 psi/ft



Delaware SWDs with IPIs

Delaware SWDs; no injection authority

Devonian SWDs

Number is pressure gradient approved under admin order

Delaware Mountain Group SWDs with IPIs [in T23S, R27E and R28E]

Order Number	Entity	Operator	Order Date	Well Name	API Number	Injection Authority	UL	Sec	Township	Range	Top Interval	Bottom Interval	Injection Interval Length	Admin Pressure	IPI Pressu
IPI-477-0	SWD;DELAWARE	RKI EXPLORATION & PRODUCTION, LLC	1/14/2015	LVP SWD No. 1	30-015-42234	SWD-1457	I	4	23 S	28 E	3710	4640	930	680	1225
IPI-463-0	SWD;BELL CANYON-CHERRY CANYON	TREK OPERATING, LLC	2/11/2014	Pearl No. 1	30-015-40496	SWD-1339	O	34	23 S	28 E	3350	4900	1550	670	1150
IPI-441-0	SWD;BELL CANYON-CHERRY CANYON	OXY USA INC	9/18/2013	NEL Federal SWD No. 4	30-015-24424	SWD-518	H	9	23 S	28 E	2956	3576	620	530	1084
IPI-424-0	SWD;CHERRY CANYON	CHEVRON U.S.A. INC.	8/30/2012	Pardue Farms 27 No. 8	30-015-26122	R-8930	H	27	23 S	28 E	4394	4662	268	879	1100
IPI-406-0	SWD;DELAWARE	BASIC ENERGY SERVICES, LP	9/19/2011	Belco State No. 2	30-015-25433	SWD-1292	F	20	23 S	28 E	2540	3680	1140	508	1056
IPI-406-A			1/27/2016				F	20	23 S	28 E	2540	3680	1140	1056	880
IPI-406-B			3/8/2016				F	20	23 S	28 E	2540	3680	1140	1056	880
IPI-309-0	SWD;DELAWARE	CHESAPEAKE OPERATING, INC.	12/16/2008	Culebra Bluff SWD No. 1	30-015-22754	SWD-481	E	2	23 S	28 E	4300	4800	500	860	1452
IPI-281	SWD;CHERRY CANYON	CHESAPEAKE OPERATING, INC.	4/11/2007	East Loving SWD No. 1	30-015-26764	R-9509	A	15	23 S	28 E	4216	4537	321	843	1150
IPI-281-A		CHEVRON U S A INC	3/23/2013				A	15	23 S	28 E	4216	4537	321	[1150]	1400
IPI-274	SWD;CHERRY CANYON	RANGE OPERATING NEW MEXICO LLC	10/31/2006	Candelario No. 1	30-015-26536	R-12224	D	24	23 S	28 E	4304	4656	352	860	960
IPI-156-0	SWD; BELL CANYON	CHEVRON U S A INC	7/18/2001	Lentini 1 Federal No. 17	30-015-29735	SWD-659	F	1	23 S	28 E	2800	3000	200	600	800
IPI-267	SWD; DELAWARE	KEY ENERGY SERVICES,INC	4/18/2006	BKE No. 1	30-015-23493	SWD-495	H	13	23 S	27 E	4014	4220	206	1110	1350
IPI-213	SWD; DELAWARE	RAY WESTALL	11/10/2003	Forehand No. 3	30-015-22192	SWD-719	J	15	23 S	27 E	3146	3974	828	629	800

Delaware Mountain Group SWDs with IPIs [in T23S, R27E and R28E]

Well Name	API Number	Injection Authority	UL	Sec	Township	Range	Top Interval	Bottom Interval	Injection Interval Length	Admin Pressure	IPI Pressure	IPI Gradient	Comments
) No. 1	30-015-42234	SWD-1457	I	4	23 S	28 E	3710	4640	930	680	1225	0.33	FPP not achieved; **poor SRT** (few steps/data points)
1	30-015-40496	SWD-1339	O	34	23 S	28 E	3350	4900	1550	670	1150	0.34	FPP not achieved; max surf 1215 psi; **poor SRT** (well not permitted to equalize; data indicates at or past FPP)
eral SWD No. 4	30-015-24424	SWD-518	H	9	23 S	28 E	2956	3576	620	530	1084	0.37	FPP (surf): 1134 psi (gradient: 0.38 psi/ft)
arms 27 No. 8	30-015-26122	R-8930	H	27	23 S	28 E	4394	4662	268	879	1100	0.25	FPP (surf): 1156 psi (gradient: 0.26 psi/ft)
te No. 2	30-015-25433	SWD-1292	F	20	23 S	28 E	2540	3680	1140	508	1056	***0.42***	FPP (surf): 930 psi (gradient: ***0.36 psi/ft***); vendor improperly plotted data set
			F	20	23 S	28 E	2540	3680	1140	1056	880	0.35	Corrected order; BHP used for approved pressure
			F	20	23 S	28 E	2540	3680	1140	1056	880	0.35	Results same for third SRT
Bluff SWD No. 1	30-015-22754	SWD-481	E	2	23 S	28 E	4300	4800	500	860	1452	0.34	FPP (surf): 1502 psi (gradient: 0.35 psi/ft)
ng SWD No. 1	30-015-26764	R-9509	A	15	23 S	28 E	4216	4537	321	843	1150	0.27	FPP (surf): 1200 psi (gradient: 0.28 psi/ft)
			A	15	23 S	28 E	4216	4537	321	[1150]	1400	0.33	FPP not achieved; max surf 1447 psi
o No. 1	30-015-26536	R-12224	D	24	23 S	28 E	4304	4656	352	860	960	***0.22***	FPP (surf): 959 psi (gradient: ***0.22 psi/ft***); NOV issued for injection >1000 psi
Federal No. 17	30-015-29735	SWD-659	F	1	23 S	28 E	2800	3000	200	600	800	0.29	FPP (surf): 1000 psi (gradient: 0.36 psi/ft)
1	30-015-23493	SWD-495	H	13	23 S	27 E	4014	4220	206	1110	1350	0.34	FPP (surf): 1397 psi (gradient: 0.35 psi/ft)
No. 3	30-015-22192	SWD-719	J	15	23 S	27 E	3146	3974	828	629	800	0.25	FPP (surf): 860 psi (gradient: 0.27 psi/ft); reported 1000 psi for 5/2013 to 4/2016