

DATE IN 08/15/13	SUSPENSE	ENGINEER <i>MB</i>	LOGGED IN 08/19/13	TYPE <i>IPI</i>	APP NO. PPRG 1323161340
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- 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

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

[D] Other: Specify SWD-8950/sub-899/
SWD-1347

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached and/or

[F] ☐ Waivers are Attached

RECEIVED OOD
 2013 AUG 15 P 2:17

Newbourne
 San Lorenzo
 SWD#1

30-015-23067

Delaware

~~2765-3800~~

~~2586-5721~~

Current Ref 5078

IPI-430 517 psi to 800 psi

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **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.

Joe Bryand
 Print or Type Name

Joe Bryand
 Signature

Engineer
 Title

8/12/13
 Date

JBryand@Newbourne.com
 e-mail Address

MEWBOURNE OIL COMPANY
PO BOX 5270
HOBBS, NM 88240
575-393-5905 FAX 575-397-6252

August 12, 2013

New Mexico Oil Conservation Division
Attn: William Jones
1220 South St. Francis Drive, Santa Fe, NM 87505
RE: IPI for the San Lorenzo SWD #1

In accordance to the step rate test performed 8/1/2013 on the San Lorenzo SWD #1 (API #30-015-23067), Mewbourne Oil Company has provided the following information:

- Application for IPI
- All data collected from Cardinal Surveys

From the data, MOC would like to increase the injection pressure to 1275 psia or more. If there are any questions or concerns please feel free to contact us.

1. Current perfs 5078' - 5721'
2. Prior IPI - 430 at 800psi; also includes requirement for tracer test

$$\frac{1275 \text{ psi}}{5078 \text{ ft}} = 0.25 \text{ psi/ft}$$

Signed: 

Date: 8/12/13
Printed Name: Joe B. Bryand
Title: Production Engineer
Phone: (575) 390-1814
Email: jbryand@mewbourne.com

RECEIVED OGD
2013 AUG 15 P 2:17

Mewbourne Oil Company

Well Name: San Lorenzo SWD #1 - Current

Updated by: J. Bryand

Spud Date: 12/10/79

Date Updated: 7/31/2013

Surface

20" 94#
Set @ 408'
750 sks "C" (110 sks to pit)

Intermediate

13 3/4" 61# K-55
Set @ 2,530'
2000 sks Lite + 300 sks "C"
(115 sks to pit)

Intermediate

9 1/4" 53 1/2# N-80
Set @ 9730' (Cut & Pulled from 2044')
1st stage 460 sks TLW + 250 sks "H"
(cire 54 sks above DV tool)
2nd stage 1800 sks HLC + 150 sks "H"
TOC @ 2280' (CBL)
DV Tool @ 7699'

Production

7" 26# & 29# P110
Set @ 6252' **NEW PBTD @ 6201'**
800 sks Lite + 400 "C" (50 sks to pit)

CIBP Set @ 6300' (capped w/35' cmt)

CIBP Set @ 7500' (capped w/35' cmt)

CIBP Set @ 8850' (capped w/35' cmt)

CIBP Set @ 9200' (capped w/35' cmt)

CIBP Set @ 11790' (capped w/35' cmt)

CIBP Set @ 12195' (capped w/35' cmt)

Open Hole

6 1/2" Hole
TD @ 12775'
Spotted 100' Class "H" from
12675' - 12775'

Tbg Detail:

1	3 1/2" x 7" AD-1 pkr w/60k shear (OD & ID PC)	3.32'
156	3 1/2" 9.3# J-55 IPC w/1505 tbg	5029.67'
	Total Tbg	5032.99'
	KB Corr	20.00'
	Tbg Set @	5052.99'

Delaware Perfs

5078'-5721'

Bone Springs Perfs

6361'-6383'

7148'-7164'

7692'-8012'

8912'-8920'

Liner

7 3/4" Liner
Set @ 12195'
TOL @ 9245'
(cire 820 sks Gas Check cmt)
11064'-11080'

11864'-11916'

Perfs:

Top	Bottom	Duration
5078	5083	5'
5086	5091	5'
5111	5116	5'
5132	5152	20'
5209	5224	15'
5229	5234	5'
5241	5251	10'
5254	5264	10'
5278	5288	10'
5371	5376	5'
5382	5387	5'
5395	5400	5'
5403	5408	5'
5410	5420	10'
5437	5447	10'
5488	5493	5'
5503	5508	5'
5511	5516	5'
5521	5531	10'
5543	5548	5'
5552	5562	10'
5573	5578	5'
5600	5605	5'
5614	5634	20'
5641	5646	5'
5680	5700	20'
5716	5721	5'
Total		225'

Step Rate Test



Cardinal Surveys Company

1-Aug-13

Mewbourne Oil Company

Well: San Lorenzo No. 1

Field;

County: Eddy, N.M.

SC60644

File No. 21380

Bottom Hole Intercept @ 12,216 BPD, 3092.7 BH PSIA & Surface Intercept @ 1,324 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. CSC 2701

Tool @ 5,400'

	Start	End	Rate BPD
1	9:08 AM	9:15 AM	0 5,400'
2	9:15 AM	9:45 AM	1000
3	9:45 AM	10:15 AM	2000
4	10:15 AM	10:45 AM	3000
5	10:45 AM	11:15 AM	5000
6	11:15 AM	11:45 AM	7000
7	11:45 AM	12:15 PM	9000
8	12:15 PM	12:45 PM	11000
9	12:45 PM	1:15 PM	13000
10	1:15 PM	1:45 PM	15000
11	1:45 PM	2:15 PM	17000
12	2:15 PM	2:45 PM	0 30 MIN. FALL OFF
13			
14			
15			
16			
17			
18			

Step Rate Test
1-Aug-13

Mewbourne Oil Company
Well: San Lorenzo No. 1
Field:
Location: Eddy, N.M.

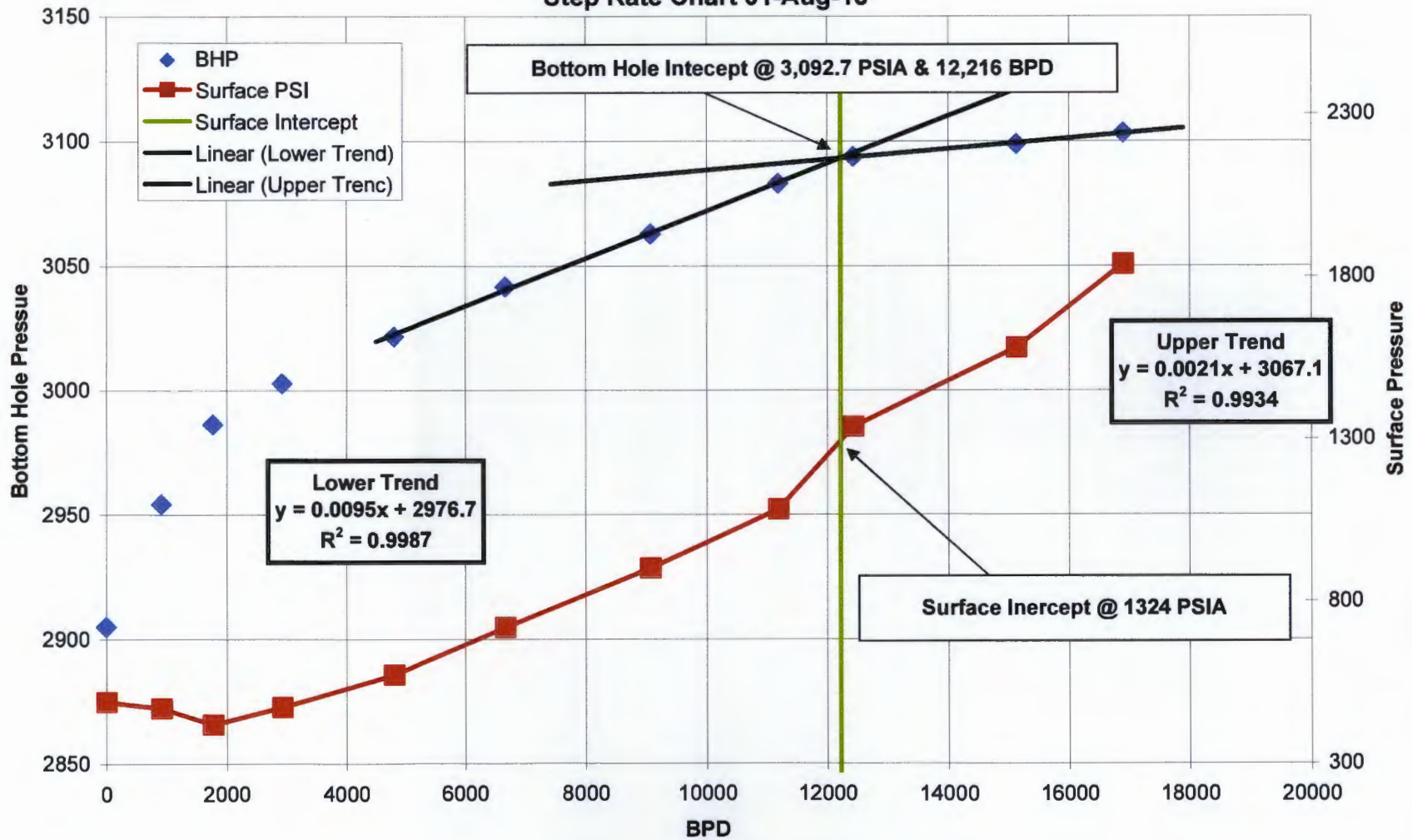


	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	9:08 AM	9:15 AM	7	0	0	2905.2	491.2	0	0	0		
2	9:15 AM	9:45 AM	30	1000	1000	2954.4	471.5	19.1	19.1	917		
3	9:45 AM	10:15 AM	30	2000	1000	2986.4	421.5	56	36.9	1771		
4	10:15 AM	10:45 AM	30	3000	1000	3002.9	475	117	61	2928		
5	10:45 AM	11:15 AM	30	5000	2000	3021.6	574	217	100	4800	3021.6	
6	11:15 AM	11:45 AM	30	7000	2000	3041.7	720	356	139	6672	3041.7	
7	11:45 AM	12:15 PM	30	9000	2000	3062.9	902.9	545	189	9072	3062.9	
8	12:15 PM	12:45 PM	30	11000	2000	3083.1	1084.2	778	233	11184	3083.1	
9	12:45 PM	1:15 PM	30	13000	2000	3093.8	1338	1037	259	12432		3093.8
10	1:15 PM	1:45 PM	30	15000	2000	3098.9	1581.9	1352	315	15120		3098.9
11	1:45 PM	2:15 PM	30	17000	2000	3103.4	1839.7	1704	352	16896		3103.4
12	2:15 PM	2:45 PM	30	0	0	3075.2	537.2	1704	0	0		
13												
14												
15												
16												

lower trend 0.0095 2976.7
upper trend 0.0021 3067.1
intersect 12216.2162 BPD
BHP PSI 3092.75405 PSIA



Mewbourne Oil Company
San Lorenzo No. 1 SWD
Step Rate Chart 01-Aug-13





**Mewbourne Oil Company
San Lorenzo No. 1 SWD
Total Data Chart 01-Aug-13**

