

DATE 1/22/13	SUSPENSE	ENGINEER WVD	LOGGED IN	TYPE FPI 430	APP NO. PWD 1303931521
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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 _____

[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

[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

1/18/2013
 Date

jbryand@newbourne.com
 e-mail Address

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

RECEIVED OCD

2013 JAN 22 P 1:30

January 18, 2013

New Mexico Oil Conservation Division
Attn: Terry Warnell
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 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 825 psia or more. If there are any questions or concerns please feel free to contact us.

Signed: _____

Date: 1/18/13
Printed Name: Joe B. Bryand
Title: Production Engineer
Phone: (575) 390-1814
Email: jlbryand@mewbourne.com

Step Rate Test



Cardinal Surveys Company

January 8, 2013

Mewburne Oil Company
SAN LORENZO SWD #1

Eddy County, New Mexico
File 21090
Tool # CSC 1001

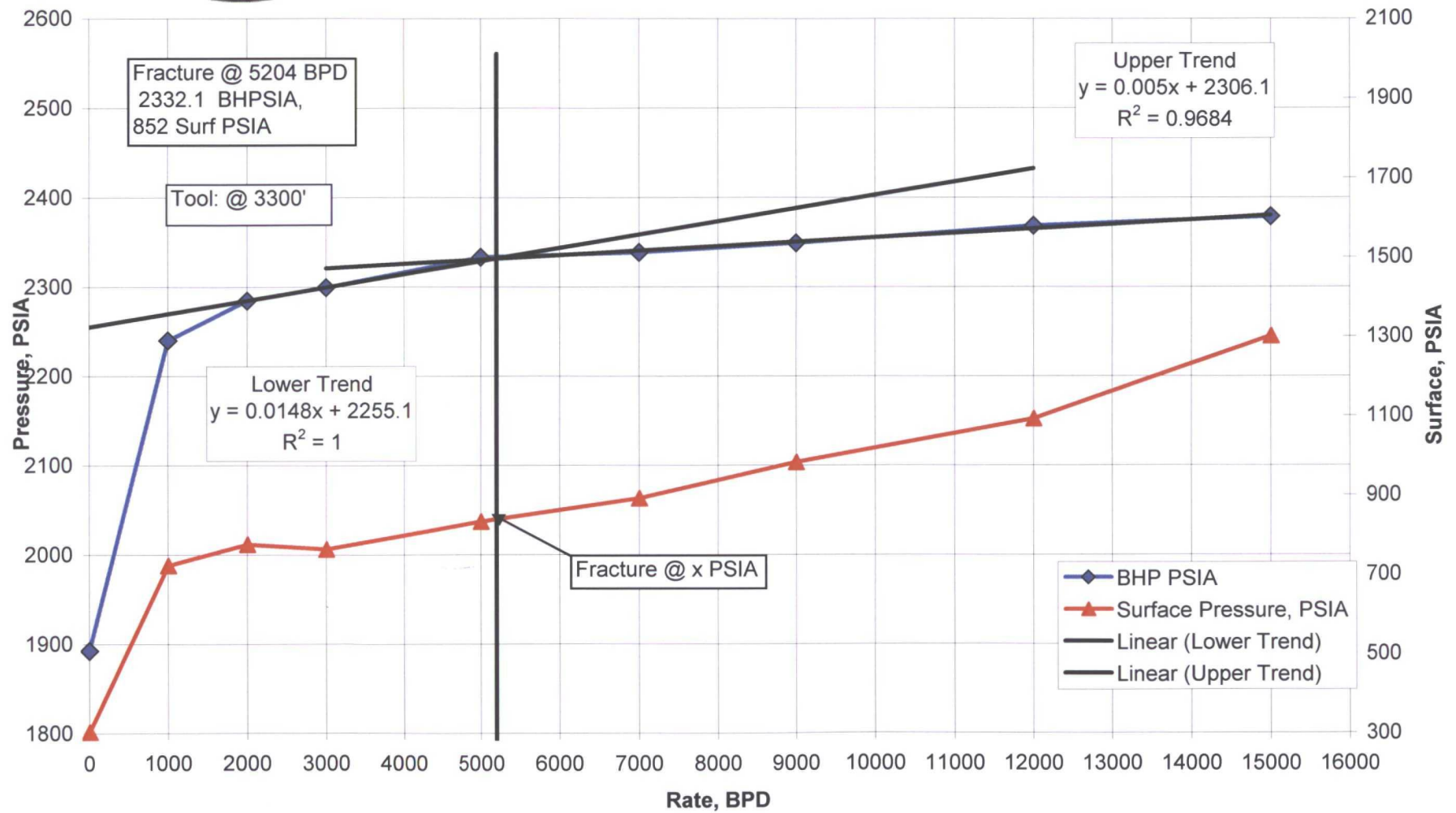
Fracture @ 5204 BPD
2332.1 BHPSIA,
852 Surf PSIA

Downhole PSI Tool Ser. No.
Surface PSI Gauge Ser. No.
Tool @ 3300'

	Start Time	End Time	Rate BPD	Comments
1	10:10 AM	10:30 AM		0 On Bottom
2	10:30 AM	11:00 AM	1000	
3	11:00 AM	11:30 AM	2000	
4	11:30 AM	12:00 PM	3000	
5	12:00 PM	12:30 PM	5000	
6	12:30 PM	1:00 PM	7000	
7	1:00 PM	1:30 PM	9000	
8	1:30 PM	2:00 PM	12000	
9	2:00 PM	2:30 PM	15000	
10	2:30 PM	2:45 PM		0 Fall Off



Mewburne Oil Company SAN LORENZO SWD #1
Step Rate Test 01-08-2013



852-50 psi \approx 800 psi
SAFETY

Step Rate Test

Mewburne Oil Company
SAN LORENZO SWD #1

Eddy County , New Mexico



	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	10:10 AM	10:30 AM	20	0	0	1892.3	304	0	0.00	0		
2	10:30 AM	11:00 AM	30	1000	1000	2240.1	723.3	20.7	20.70	894		
3	11:00 AM	11:30 AM	30	2000	1000	2284.7	776.3	42	21.30	2189	2284.7	
4	11:30 AM	12:00 PM	30	3000	1000	2299.5	764.2	64	22.00	3107	2299.5	
5	12:00 PM	12:30 PM	30	5000	2000	2333.3	834	116.5	52.50	5389		
6	12:30 PM	1:00 PM	30	7000	2000	2338.8	891.8	146	29.50	6909		
7	1:00 PM	1:30 PM	30	9000	2000	2349.1	982.9	200	54.00	10178		2349.1
8	1:30 PM	2:00 PM	30	12000	3000	2368.6	1093	244	44.00	11275		2368.6
9	2:00 PM	2:30 PM	30	15000	3000	2378.8	1301.7	310	66.00	15075		2378.8
10	2:30 PM	2:45 PM	15	0	-15000	1848.6	783.3	310	0.00	0		

0.0148 2255.1
0.005 2306.1

int point: 5204.0816 BPD
2332.1204 Psia



Mewburne Oil Company SAN LORENZO SWD #1
Step Rate Test 01-08-2013



Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, February 08, 2013 9:17 AM
To: 'jbryand@mewbourne.com'
Cc: Ezeanyim, Richard, EMNRD; Goetze, Phillip, EMNRD; Inge, Richard, EMNRD; Dade, Randy, EMNRD
Subject: Injection Pressure Increase application for Salt Water Disposal well operated by Mewbourne Oil Company: San Lorenzo SWD #1 30-015-23067 Unit L Sec 15 T25S R28E

Hello Joe,

Thanks for the application, it looks fine.

FYI we always back off 50psi from the actual interpreted break point on surface pressure for the permitted pressure - a safety factor.

Would you send a current wellbore diagram of this well showing actual perforation depths (top and bottom) and actual tubing specs and the packer setting depth?

Does not have to be a fancy diagram, whatever is fast but accurate.

I have this permit ready to release – just scan and email the diagram?

Thanks Much!

William V. Jones, P.E.

505-476-3448W 505-476-3462F

Engineering Bureau, Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Mewbourne Oil Company

ed by: J. Bryand
Spud Date: 12/10/79

Well Name: San Lorenzo SWD #1 - Current

Date Updated: 1/4/2012

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

Intermediate
13 1/2" 61# K-55
Set @ 2,530'
2000 sks Lite + 300 sks "C"
(115 sks to pit)

Production
9 5/8" 53 1/2# N-80
Set @ 9730' (Cut & Pulled from 2044')
1st stage 460 sks TLW + 250 sks "H"
(circ 54 sks above DV tool)
2nd stage 1800 sks HLC + 150 sks "H"
TOC @ 2280' (CBL)
DV Tool @ 7699'
CIBP Set @ 5000' (capped w/35' cmt)

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 9 5/8" AD-1 pkr w/60k shear (OD & ID PC)	4.22'	
80	3 1/2" 9.3# J-55 IPC w/1505 tbg	2574.70'	
	Total Tbg	2578.92'	
	KB Corr	20.00'	
	Tbg Set @	2598.92'	

Delaware Perfs
2610'-4095'

Bone Springs Perfs
6361'-6383'

7148'-7164'

7692'-8012'

8912'-8920'

Liner
7 1/2" Liner
Set @ 12195'
TOL @ 9245'
(circ 820 sks Gas Check cmt)

11064'-11080'

11864'-11916'

