

DATE IN <u>1.10.16</u>	SUSPENSE	ENGINEER <u>TW.</u>	LOGGED IN <u>1.10.11</u>	TYPE <u>IPI</u>	APP NO. <u>1101055699</u>
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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



Ever Vest
143199

West Loc Hills #34

ADMINISTRATIVE APPLICATION CHECKLIST *30-015-37017*

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]

Fed
Edgy

[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 _____

880

1056
-50

1006

[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.

Shirley Galik
 Print or Type Name

S. Galik
 Signature

Sr. Regulatory Tech
 Title

1/7/20100
 Date

sgalik@enervest.net
 e-mail Address



RECEIVED OCD
2011 JAN 10 A 11:00

January 7, 2011

New Mexico Oil Conservation Division
Attention Mr. Terry Warnell
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Injection Pressure Increase Request
West Loco Hills G4S Unit #34 (R-13128),
Loco Hills; Queen-Grayburg-San Andres Pool (39520)
Eddy County, New Mexico

Dear Mr. Warnell,

Enverest Operating, LLC, (OGRID 143199) is requesting an exception to the approved injection pressure of 880 psi for the **WLHU #34** injection well, (API #30-015-37017, perfs 2626-45). Based on the attached Step Rate Test data, Enervest requests that the allowable surface injection pressure be raised to 1056 psi. This increase is needed to balance injection and withdrawal rate in order to optimize waterflood operations.

At the current injection pressure limit, we are not able to inject enough water into the formation to effectively drain the reservoir through the producers.

Please do not hesitate to contact me at 713.495.5344 or Shirley Galik, Regulatory at 713.495.1514 with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Josh Caldwell', with a large, stylized flourish at the end.

Josh Caldwell
Production Engineer

Attachment



Cardinal Surveys Company

21-Dec-10

Enervest Operating LLC

Well: W.L.H. Unit No. 34

Field: West Loco Hills

County: Eddy County, New Mexico

SC 59501

File No. 20112

Intercept @ 506.5 BPD, 2225.0 BH PSIA & Surface Intercept @ 1056 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,630'

	Start	End	Rate
1	7:07 AM	7:45 AM	0 2,630'
2	7:45 AM	8:15 AM	100
3	8:15 AM	8:45 AM	200
4	8:45 AM	9:15 AM	300
5	9:15 AM	9:45 AM	400
6	9:45 AM	10:15 AM	600
7	10:15 AM	10:45 AM	900
8	10:45 AM	11:15 AM	1200
9	11:15 AM	11:30 AM	Fall Off
10			
11			
12			
13			
14			
15			
16			
17			
18			

Step Rate Test
21-Dec-10

Enervest Operating LLC

Well: W.L.H. Unit No. 34

Field:

Location: Eddy County, New Mexico

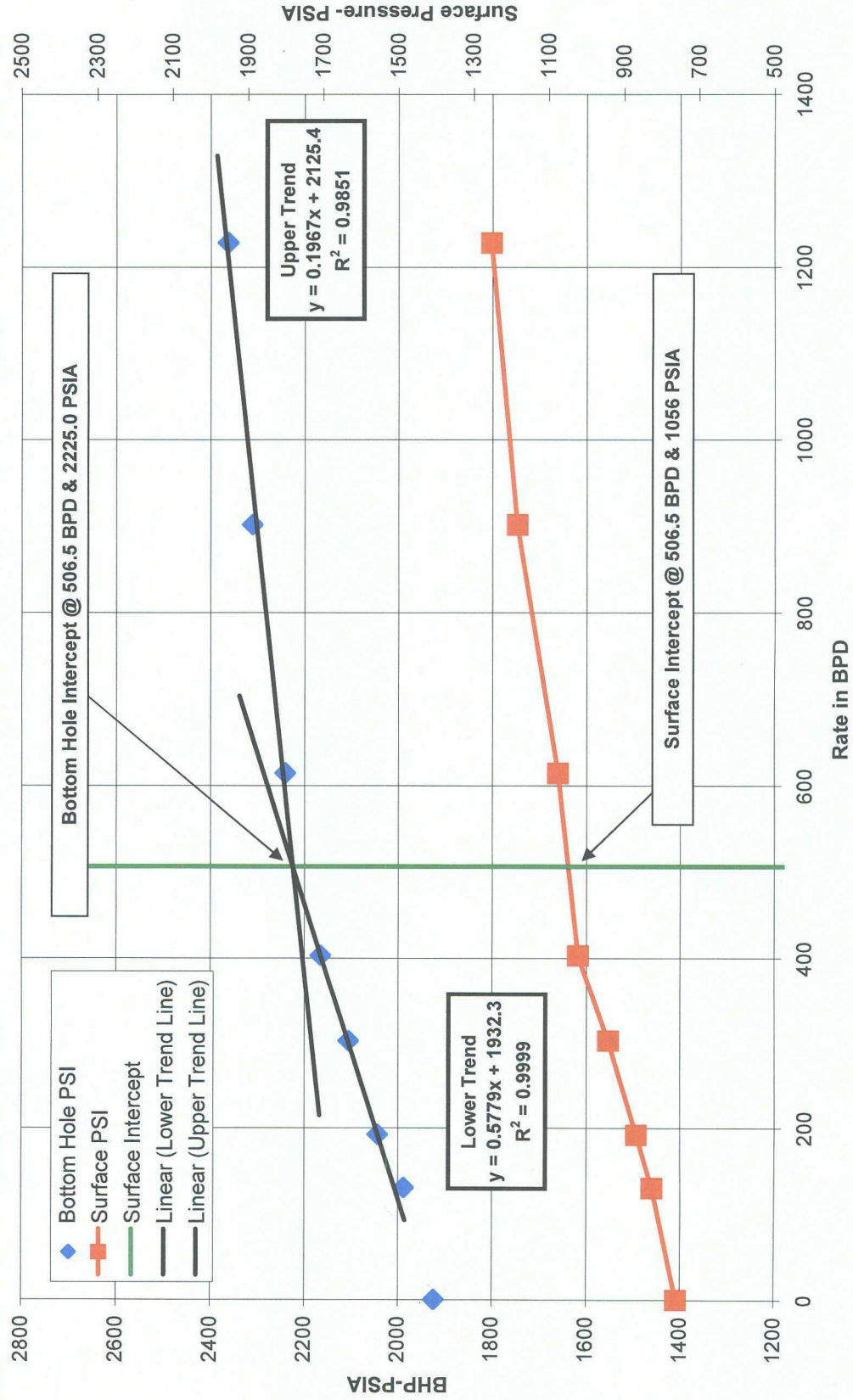


	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	7:07 AM	7:45 AM	38	0	0	1924.1	761.1	0	0	0		
2	7:45 AM	8:15 AM	30	100	100	1988.7	825.3	2.7	2.7	130		
3	8:15 AM	8:45 AM	30	200	100	2043.7	867.2	6.7	4	192	2043.7	
4	8:45 AM	9:15 AM	30	300	100	2106.3	941.6	13	6.3	302	2106.3	
5	9:15 AM	9:45 AM	30	400	100	2165.8	1021.7	21.4	8.4	403	2165.8	
6	9:45 AM	10:15 AM	30	600	200	2241.7	1075.6	34.2	12.8	614		2241.7
7	10:15 AM	10:45 AM	30	900	300	2311.5	1183.5	53	18.8	902		2311.5
8	10:45 AM	11:15 AM	30	1200	300	2363.1	1252.9	78.6	25.6	1229		2363.1
9	11:15 AM	11:30 AM	15	0	0	2284.4	1130	78.6	0	0		
10												
11												
12												
13												
14												
15												
16												

0.1967 2125.4
0.5779 1932.3
Intersect 506.558237 BPD
BHP PSI 2225.04001 PSIA

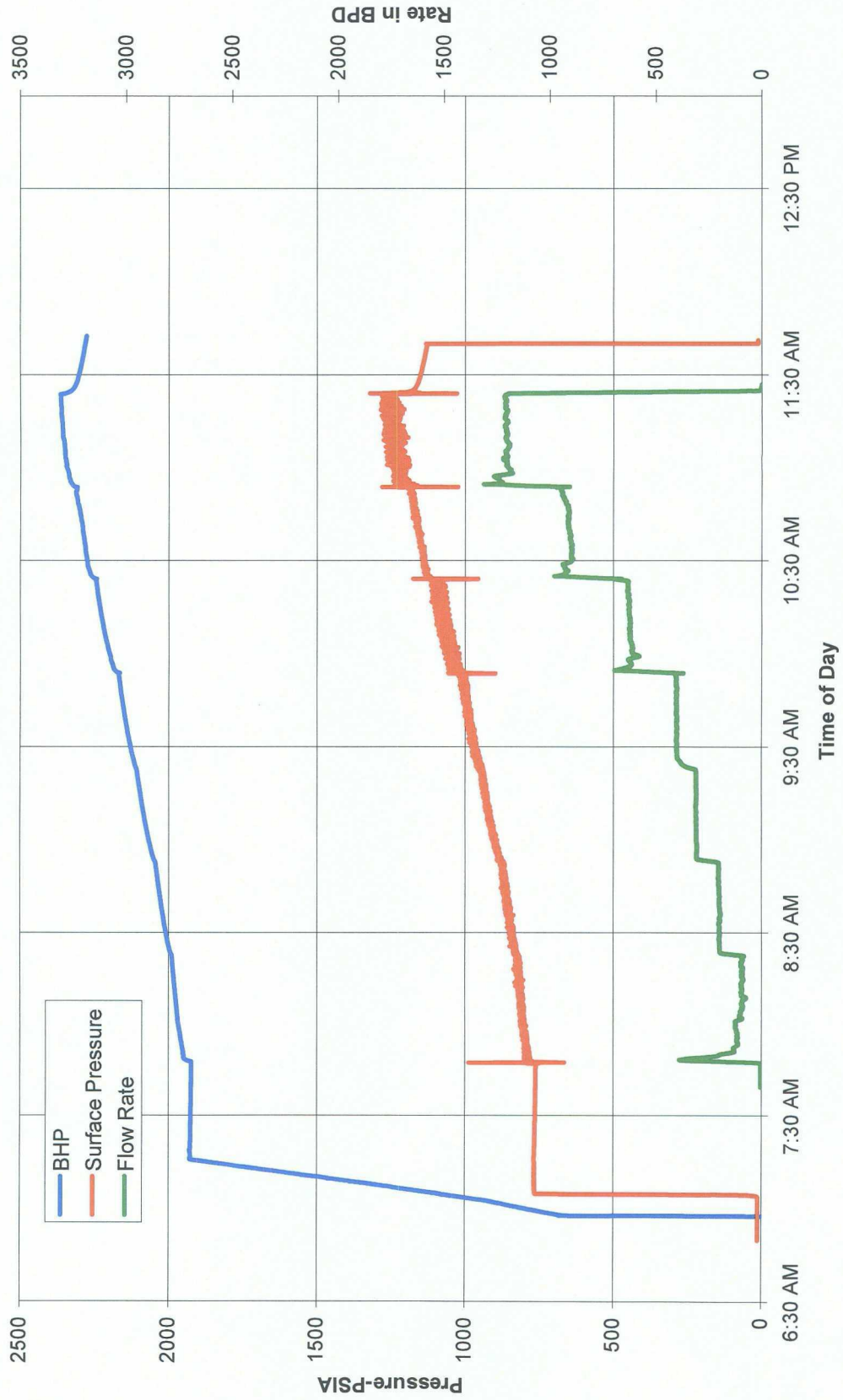


Enervest Operating LLC
W.L.H. Unit No. 34
Step Rate Chart 21-Dec-10





Enervest Operating LLC
W.L.H. Unit No. 34
Total Data Chart 21-Dec-10



WLHG4S #34
West Loco Field
Eddy County
30-015-37017

Current Wellbore Schematic

Ground Level 2,755'
KB 12
Spud Date 1/27/10
Rig Release 2/02/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 382'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,609'PCID

G6 Packer @ 2,582 '

Perfs 2,626-2,645' (Total of 150 holes)

4 1/2" 10.5# J-55 Csg @ 2,745'
Cmt w/ 600 Sx to Surface

TD 2,755'

Josh Caldwell
1/7/2011

