

DATE IN 6/20/06	SUSPENSE 6/20/06	ENGINEER DAVID CATANACH	LOGGED IN 6/20/06	TYPE IPI	APP NO. PTDS0617149255
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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.

_____ Print or Type Name	_____ Signature	_____ Title	_____ Date
_____ e-mail Address			



Occidental Permian Ltd.
A subsidiary of Occidental Petroleum Corporation

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June 19, 2006

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

2006 JUN 20 AM 9 40

ATTN: Mr. David R. Catanach

RE: REQUEST FOR INCREASED SURFACE INJECTION PRESSURE ON
SELECTED WELLS IN THE NORTH HOBBS (GRAYBURG/SAN ANDRES)
UNIT (19520), LEA CO., NEW MEXICO

Dear Mr. Catanach:

Occidental Permian Limited Partnership (OXY), as Operator of the North Hobbs (Grayburg/San Andres) Unit, respectfully requests that the surface injection pressure limit (water) be increased from 800 psig to 1100 psig for each of the 26 wells on the attached list (Exhibit 1). The 26 wells are located outside of the Phase 1 Area (Exhibit 2) which is subject to a tertiary recovery injection project. Division Order No. R-6199-B (10/22/01, Case No. 12722) limits the surface injection pressure (water) to no more than 1100 psig for the 103 wells in the Phase 1 Area.

The increase in surface injection pressure is necessary to balance injection rates and reservoir pressure, thus ensuring optimum performance of the project. The reservoir pressure within the Phase 1 Area is higher than the reservoir pressure outside the Area. As a result, CO₂ is migrating outside the Phase 1 Area. The proposed increase in water injection pressure will raise the reservoir pressure and will help contain the CO₂ within the Phase 1 Area.

Five step rate tests were done in 2005 outside of the Phase 1 Area and the results are attached for your review (Exhibits 3-7). Exhibit 8 is an update to Exhibit No. 35, part of Case No. 12722, and includes the 2005 step rate test data. The average bottom hole fracture pressure for the five wells tested is 3059 psig and the average surface fracture pressure is 1301 psig.



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Your favorable consideration of our request will be appreciated. If you have questions of a technical nature, please contact OXY's Abel Salazar at (713) 366-5116. Otherwise, please contact the undersigned at (713) 366-5158.

Very truly yours,

Mark Stephens
Regulatory Compliance Analyst

Attachments

NORTH HOBBS (GB/SA) UNIT

<u>WELL</u>	REQUESTED SURFACE INJECTION PRESSURE (PSIG)	<u>WELL</u>	REQUESTED SURFACE INJECTION PRESSURE (PSIG)
NHGSAU No. 111 (30-025-07422) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 432 (30-025-26974) Sec 32, T-18-S, R-38-E	1100
NHGSAU No. 232 (30-025-28882) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 142 (30-025-28411) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 242 (30-025-29276) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 211 (30-025-07564) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 311 (30-025-07417) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 221 (30-025-07560) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 422 (30-025-27243) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 231 (30-025-07545) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 441 (30-025-07411) Sec 28, T-18-S, R-38-E	1100	NHGSAU No. 232 (30-025-26834) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 341 (30-025-07500) Sec 31, T-18-S, R-38-E	1100	NHGSAU No. 322 (30-025-27169) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 132 (30-025-27139) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 342 (30-025-28267) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 141 (30-025-07523) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 422 (30-025-28268) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 142 (30-025-28265) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 432 (30-025-28269) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 144 (30-025-31662) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 534 (30-025-34373) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 341 (30-025-07539) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 543 (30-025-34997) Sec 33, T-18-S, R-38-E	1100
NHGSAU No. 342 (30-025-28266) Sec 32, T-18-S, R-38-E	1100	NHGSAU No. 631 (30-025-34994) Sec 33, T-18-S, R-38-E	1100

Exhibit 1

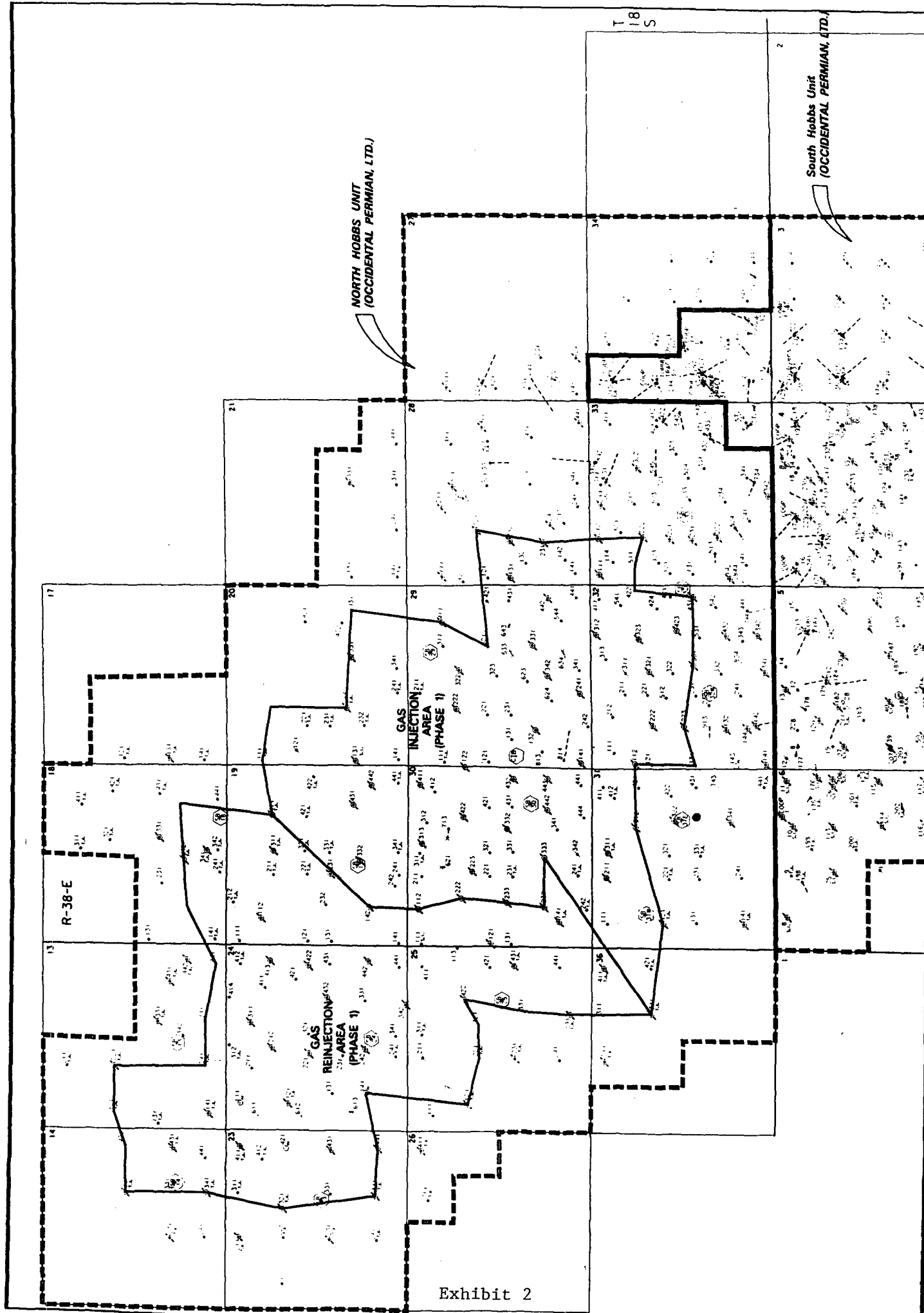
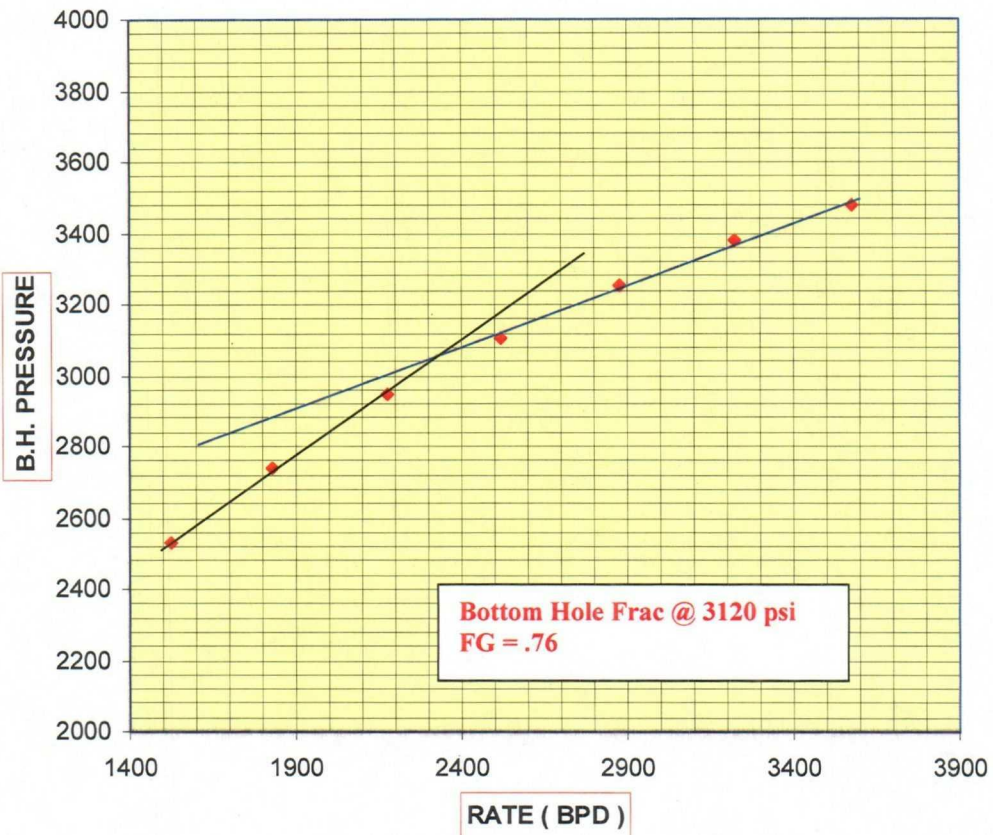
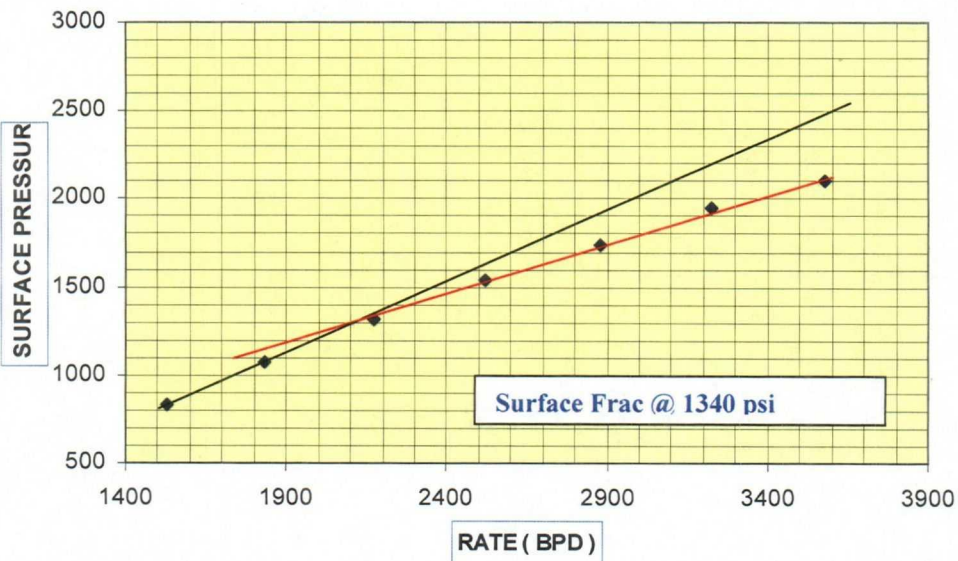


Exhibit 2

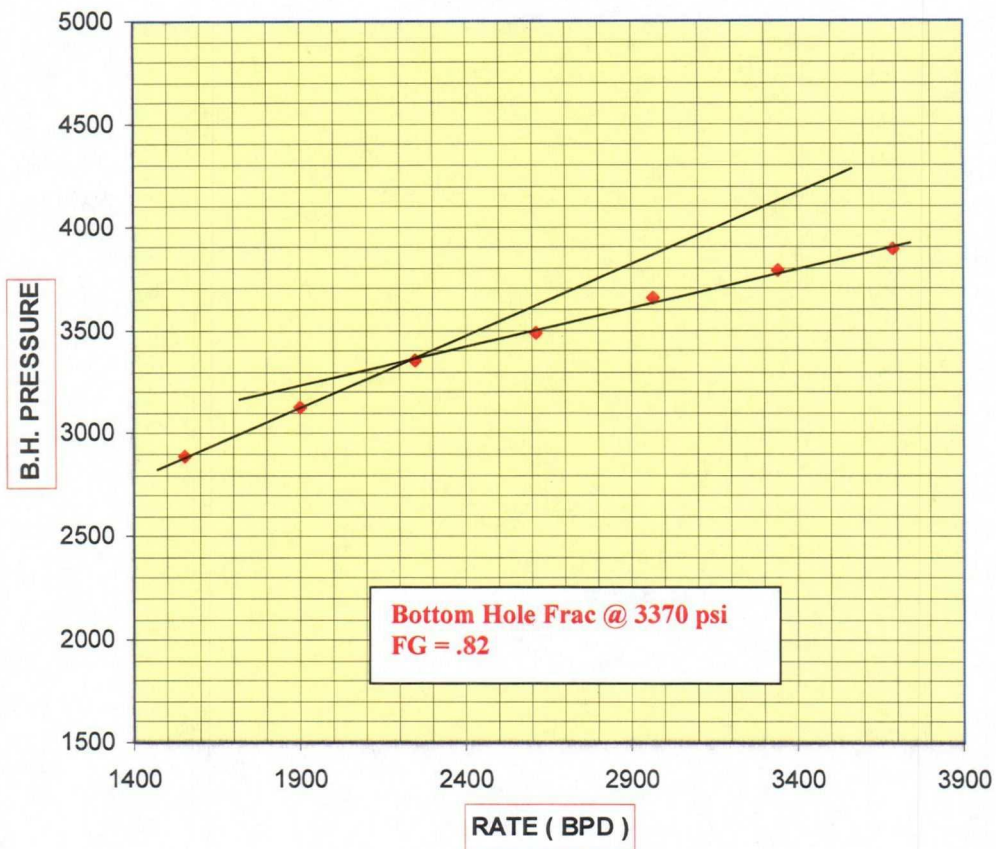
STEP RATE TEST
NHU # 33-221



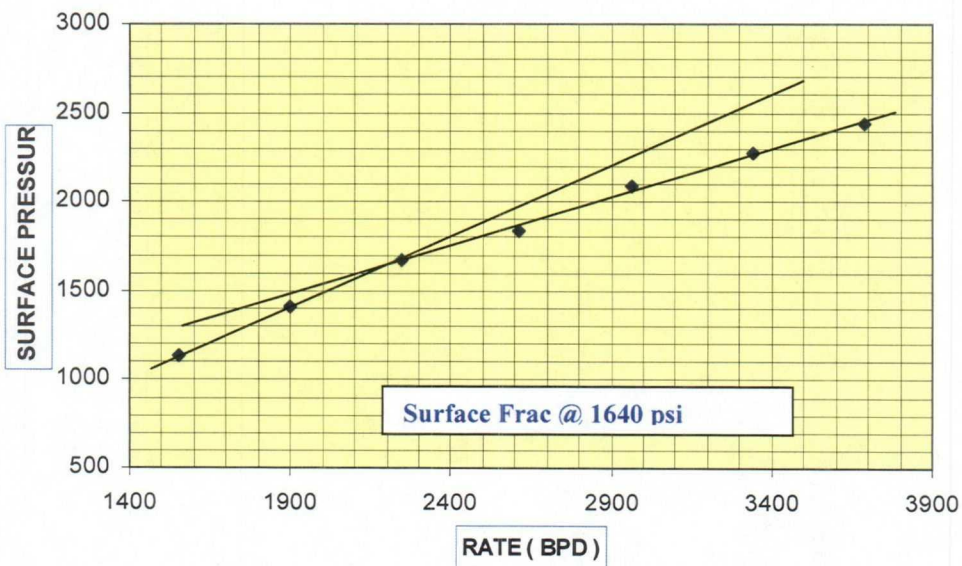
STEP RATE TEST



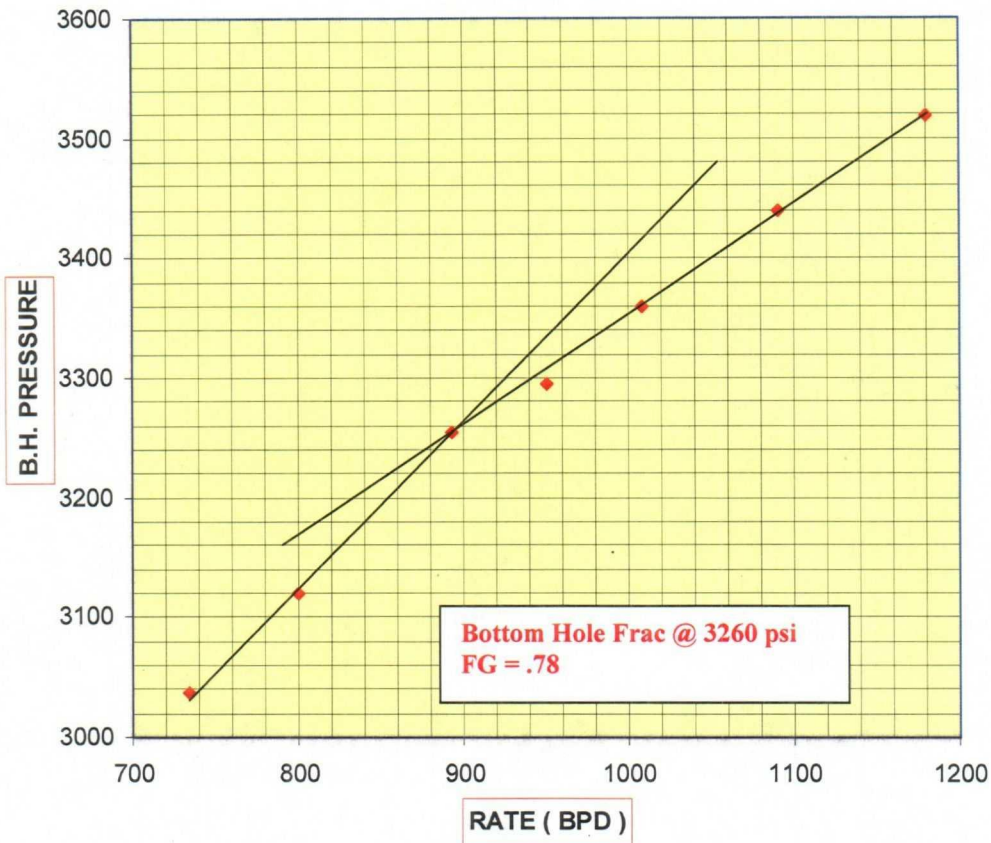
STEP RATE TEST
NHU # 33-222



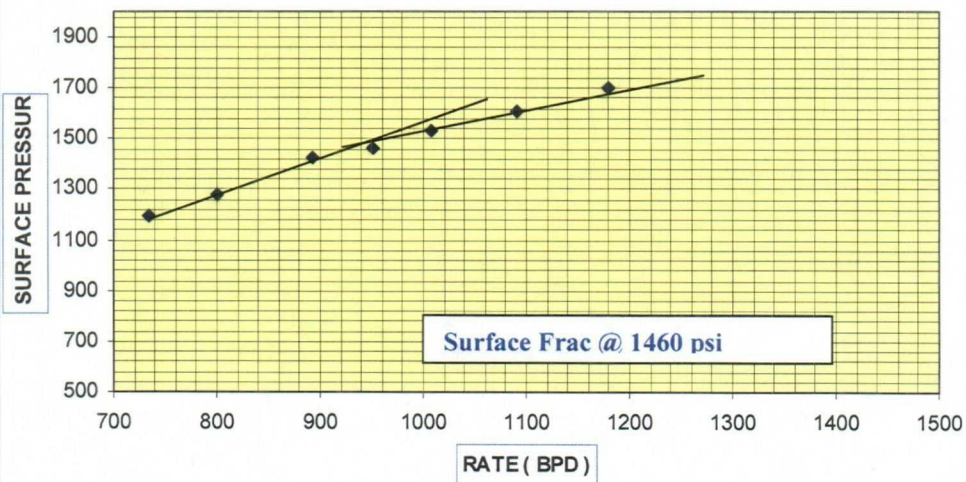
STEP RATE TEST
NHU # 33-222



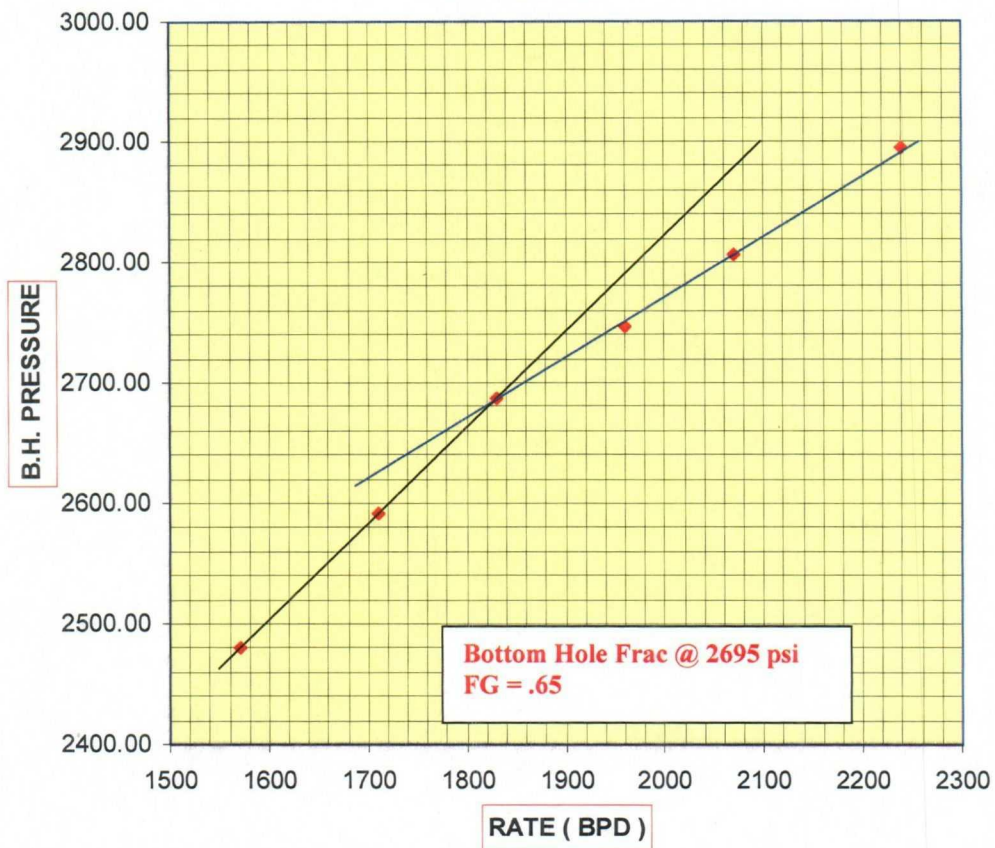
STEP RATE TEST
NHU # 28-232



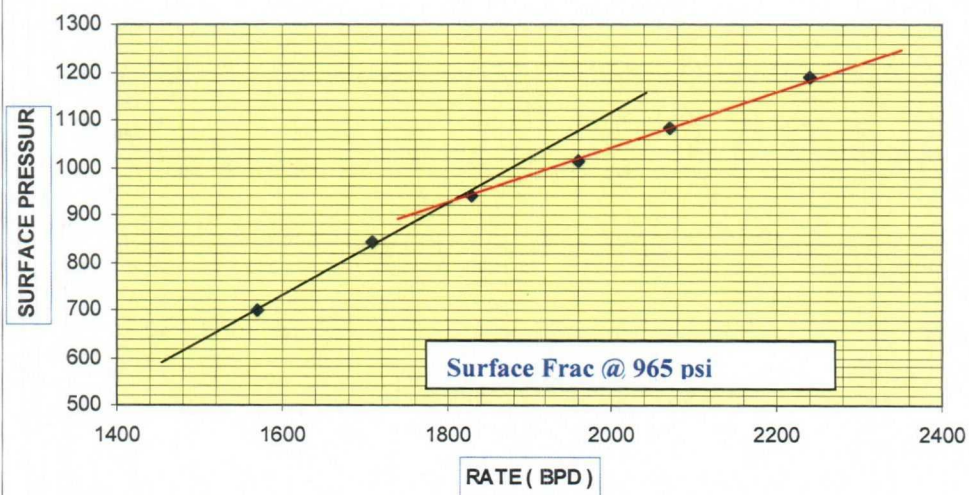
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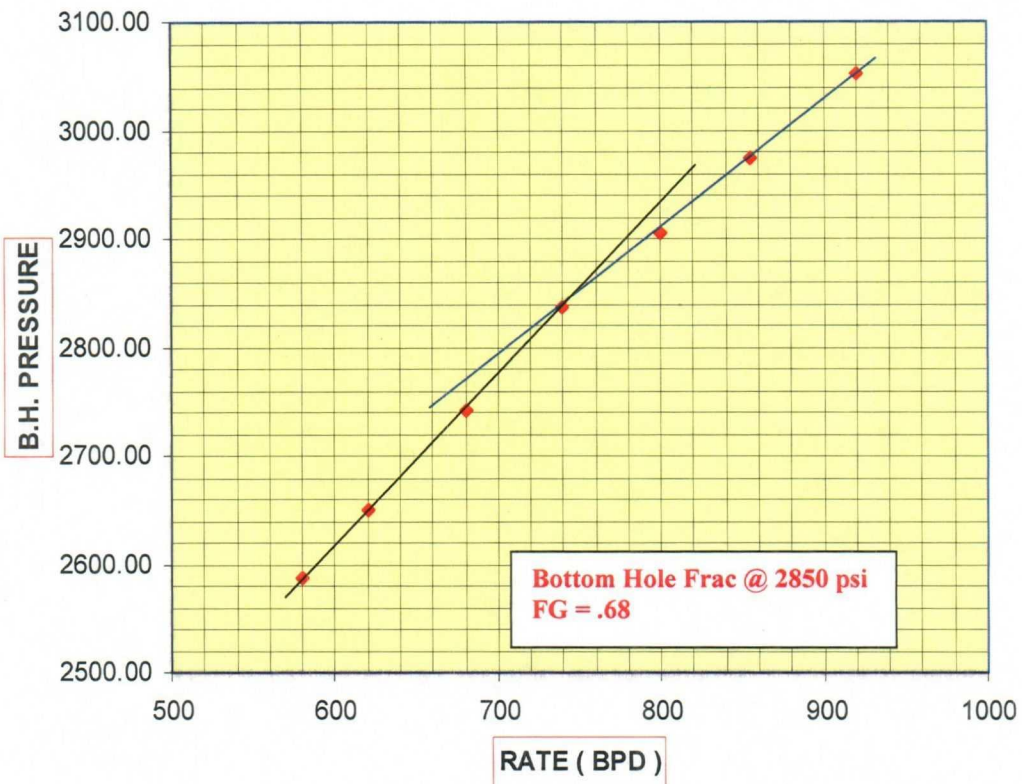
STEP RATE TEST NHU # 32-341



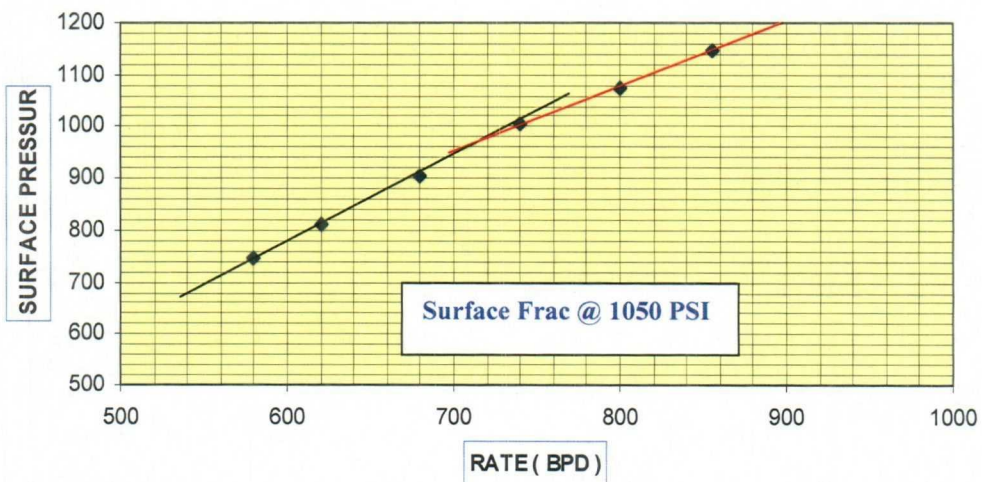
STEP RATE TEST NHU # 32-341

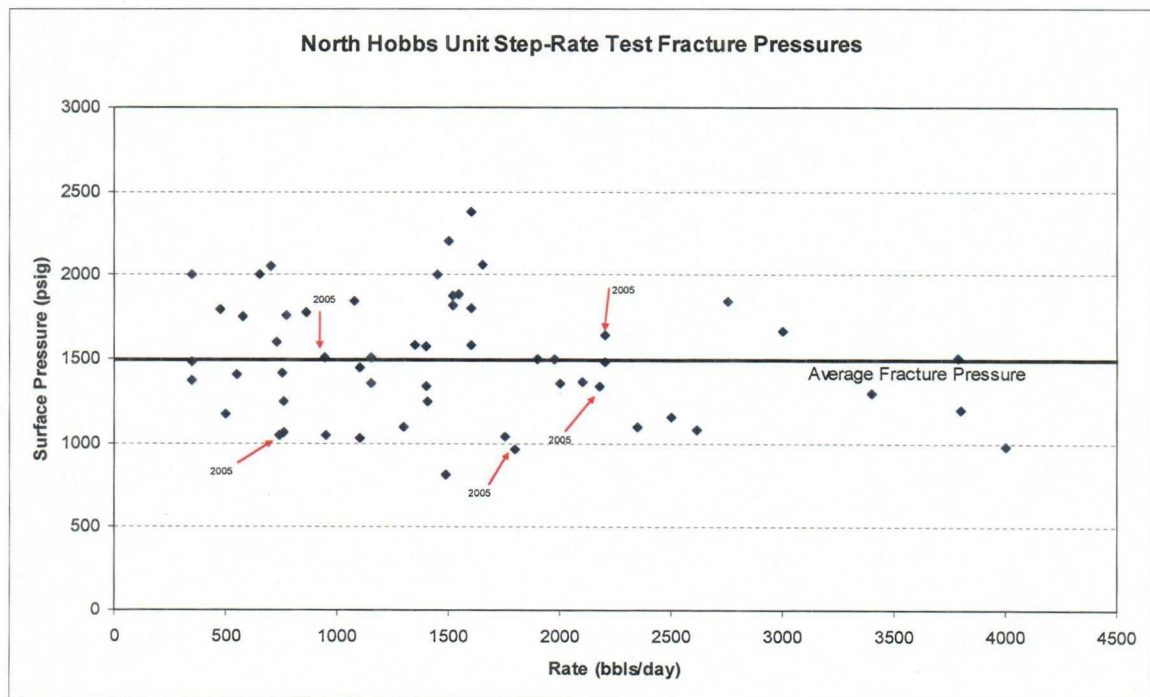
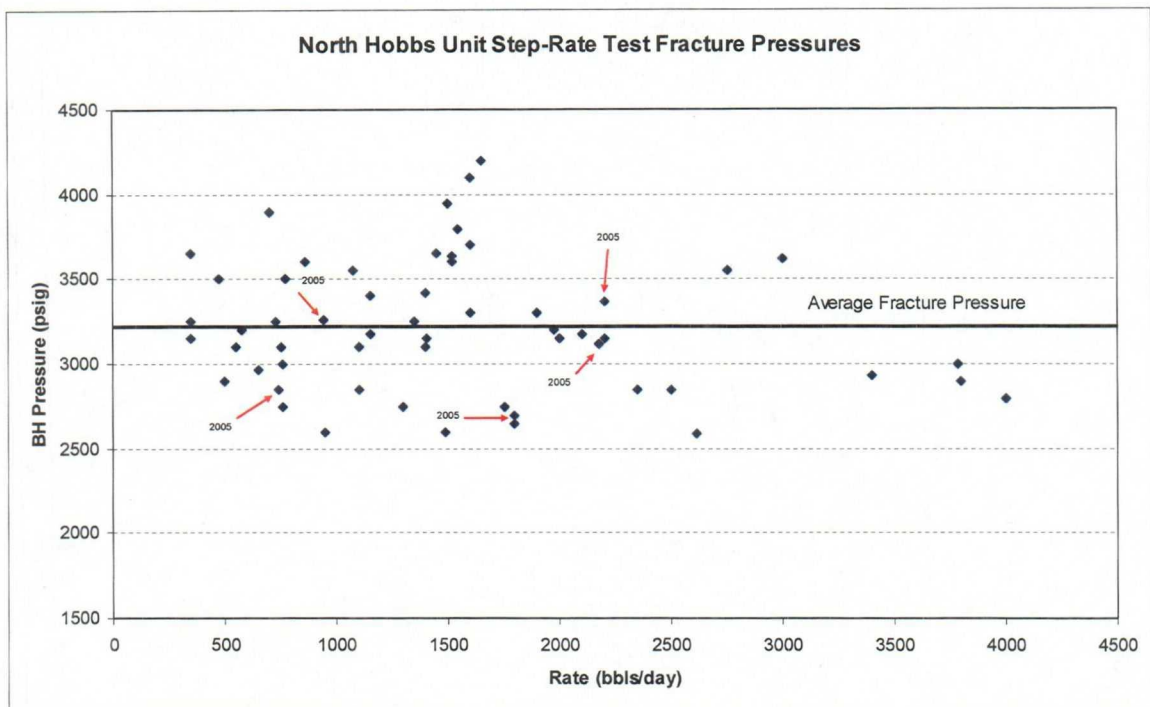


STEP RATE TEST
NHU # 31-341



STEP RATE TEST
NHU # 31-341





North Hobbs Unit Step-Rate Test Fracture Pressures

