

4/9/10	SUSPENSE	TEW	4/12/10	IPI	PWW 101034174
DATE IN		ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED OCD

APR -9 P 1:43

Hess

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 _____

IPI-365

[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.

Rita C. Smith

Print or Type Name

Rita C.

Smith

[Handwritten Signature]

Digitally signed by Rita C. Smith
 DN: cn=Rita C. Smith, o=Hess
 Corp, ou=Engineering,
 email=rsmith@hess.com, c=US
 Date: 2010.04.06 11:25:34
 -05'00'

Engineer Tech 04-06-10

Title

Date

rsmith@hess.com

e-mail Address



HESS CORPORATION

P.O. Box 840

Seminole, TX 79360

Rita C Smith

Engineering Technician

(432) 758-6726

Cell (432) 209-1084

April 6, 2010

NMOCD

Attn: Ed Martin

1220 South St. Francis Dr.

Santa Fe New Mexico 87505

Ref: Step Rate Test

Mitchell 1830 092F

Permit # 30-021-20494 allowing injection into Mitchell 1830-092F

Order # SWD-1181 June 18, 2009 that approved the original injection pressure

Hess Corporation is requesting a maximum injection pressure increase to 1082 psia, from the Permit number 30-021-20494 and Administrative Order SWD-1181 for the Mitchell 1830 092F original injection pressure. Cardinal conducted a Step Rate Test on the Mitchell 1830-029F. Parting pressure is 1751.8 psia BHP with a Rate Intercept of 560.8 BPD. The surface pressure intercept is 1082 psia with a 15 minute ISIP = 1703.3 psia BHP

Attached the Surface & BHP Vs Rate plots, Well Bore Diagram, and the Raw data (and on diskette).

Your consideration in this matter is greatly appreciated. If additional information is needed, please let us know at your earliest convenience.

If you have any questions regarding the cancellation of this application, please contact me at (432)758-6726 or rsmith@hess.com

Sincerely,

Rita C Smith

Engineering Tech

Step Rate Test



Cardinal Surveys Company

29-Mar-10

Hess Corporation

Well: Mitchell 1830-092F

Field: Bravo Dome

County: Harding County, NM

SC59190

File No. 19,789

Intercept @ 560.8 BPD, 1751.8 BH PSIA & Surface Intercept @ 1082 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 1600'

	Start	End	Rate
1	10:40 AM	11:00 AM	0 At 1600'
2	11:15 AM	12:15 PM	100
3	12:15 PM	1:15 PM	200
4	1:15 PM	2:15 PM	300
5	2:15 PM	3:15 PM	400
6	3:15 PM	4:15 PM	500
7	4:15 PM	5:15 PM	700
8	5:15 PM	6:15 PM	900
9	6:15 PM	6:30 PM	15 MIN. Fall-Off
10			
11			
12			
13			
14			
15			
16			
17			
18			

NOTE: Due to surface pump being maxed out at 900 BPD, test was ended

Step Rate Test
29-Mar-10

Hess Corporation

Well: Mitchell 1830-092F

Field: Bravo Dome

Location: Harding Co. NM



	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	10:40 AM	11:00 AM	20	0	0	1235	546.9	0	0	0		
2	11:15 AM	12:15 PM	60	100	100	1592.3	898.3	17.9	17.9	106		
3	12:15 PM	1:15 PM	60	200	100	1642.1	952.1	48.7	30.8	198		
4	1:15 PM	2:15 PM	60	300	100	1685.4	998.2	90.8	42.1	295	1685.4	
5	2:15 PM	3:15 PM	60	400	100	1713.6	1033.1	154.7	63.9	398	1713.6	
6	3:15 PM	4:15 PM	60	500	100	1735.2	1059.7	240.6	85.9	497	1735.2	
7	4:15 PM	5:15 PM	60	700	200	1762.2	1096.2	343.7	103.1	698		1762.2
8	5:15 PM	6:15 PM	60	900	200	1777.2	1112.6	469.1	125.4	898		1777.2
9	6:15 PM	6:30 PM	15	0	0	1699.2	1015.6					

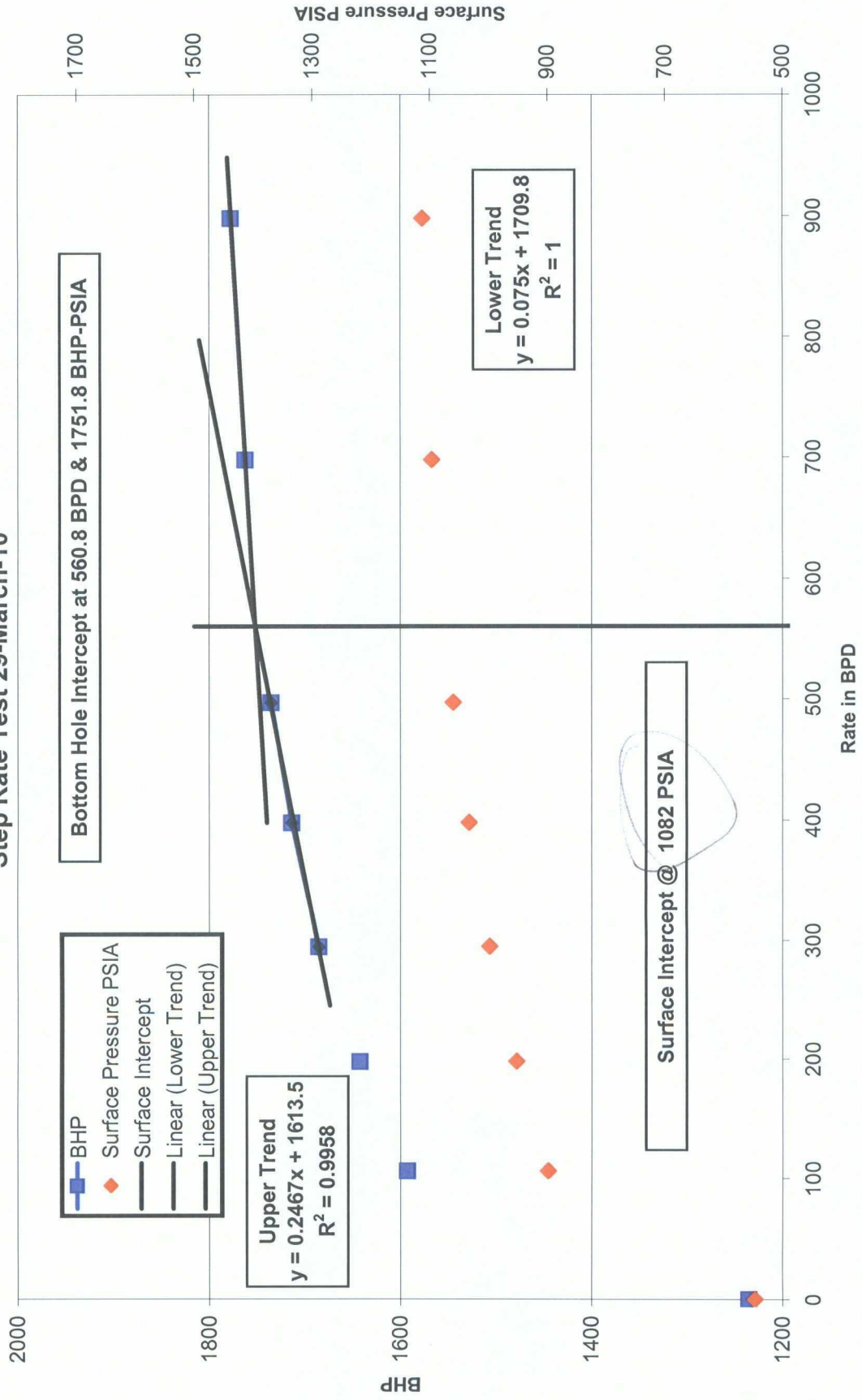
10

0.2467 1613.5
0.075 1709.8
intersect 560.861969 BPD
BHP PSI 1751.86465 PSIA



Hess Corporation
Mitchell 1830-092F

Step Rate Test 29-March-10





Hess Corporation
Mitchell 1830-092F
March 29, 2010

