

PTG-W

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



Hess 495

Mitchell 1830 #92F

-404-

ADMINISTRATIVE APPLICATION CHECKLIST *30-021-20494*

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

*Harding Col
Fee*

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

1300

[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* Signature
 Digitally signed by Rita C. Smith
 DN cn=Rita C. Smith, o=Hess Corp, ou=Engineering, email=rsmith@hess.com, c=US
 Date 2011.06.17 10:29:11 -05'00' Engineer Tech 06-16-2011
 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

June 17, 2011

NMOCD

Attn: Ed Martin

Attn: Terry Warnell

1220 South St. Francis Dr.

Santa Fe New Mexico 87505

Ref: Step Rate Test

Mitchell 1830 092F

API Permit # 30-021-20494 SWD-1181

Administrative Order IPI-365 April 20, 2010

Unit F, Sec 9, T18 North, R30 East, NMPM, Harding County, New Mexico

Yeso formation

Through the open hole interval from 1,592 feet to 1,800 feet

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

Hess Corporation is requesting a maximum injection pressure increase to 1300 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.

Attached the BHP Vs Rate plots and Well Bore Diagram.

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

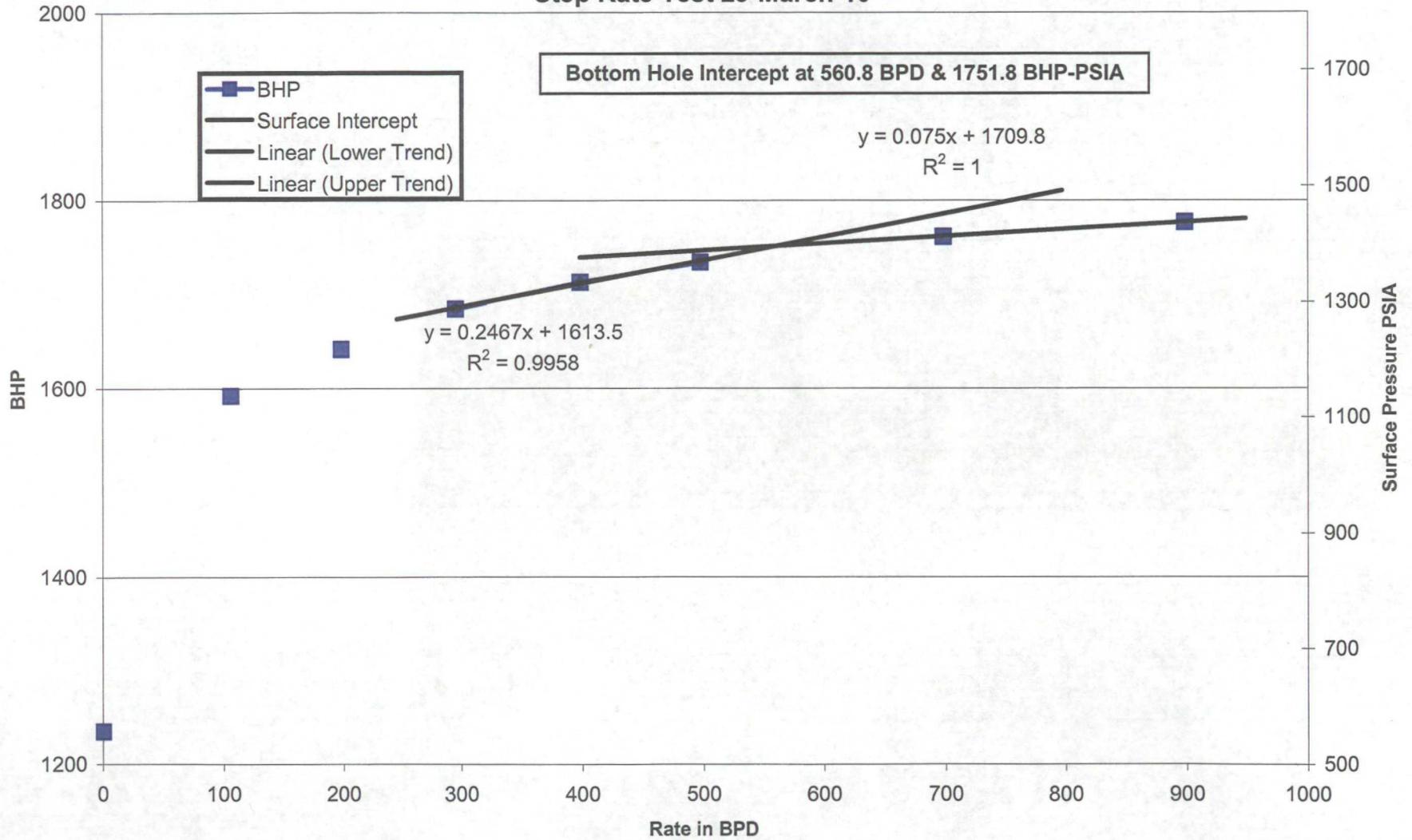
Sincerely,

Rita C Smith

Engineering Tech



Hess Corporation
Mitchell 1830-092F
Step Rate Test 29-March-10



**Step Rate Test
29-Mar-10**

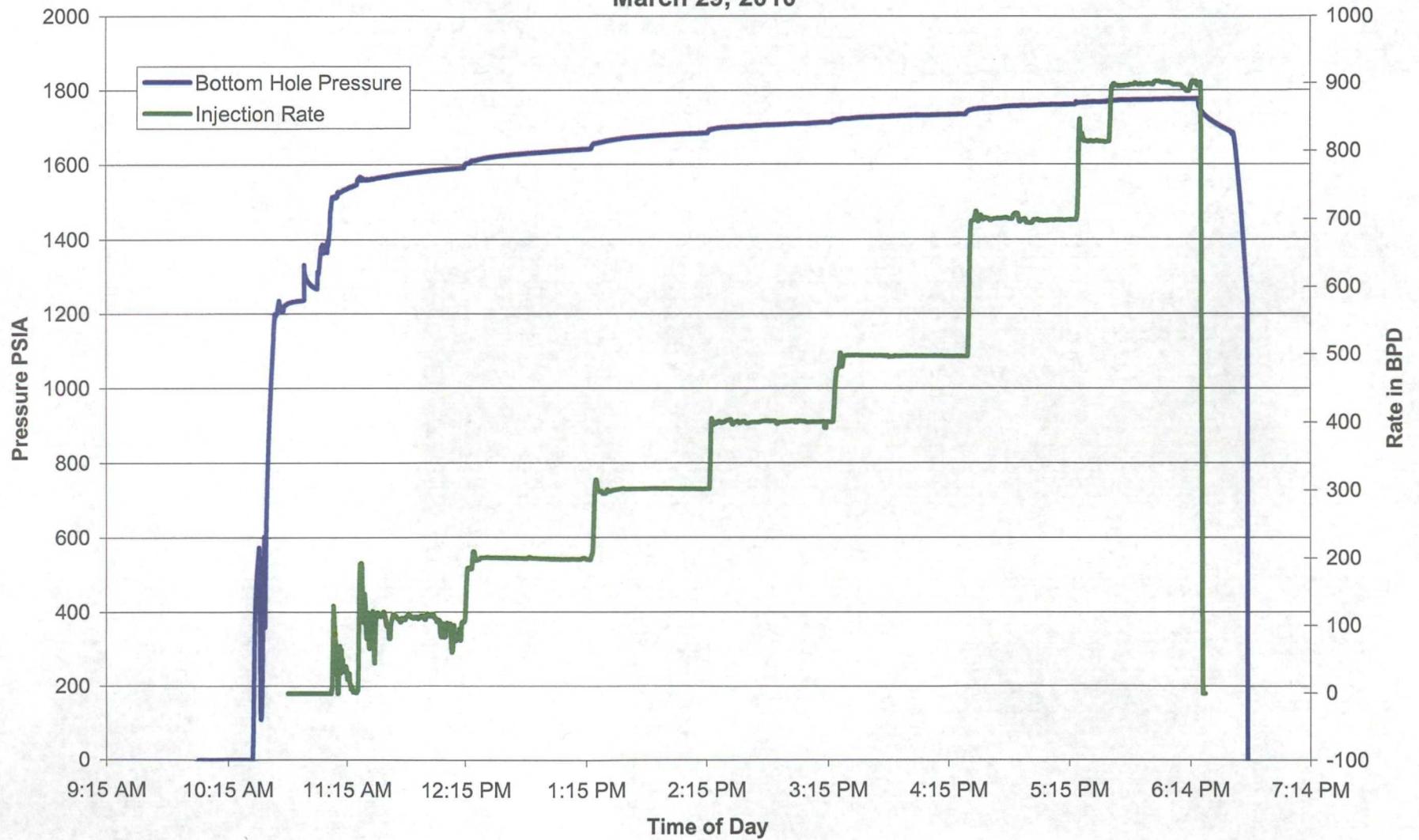
**Hess Corporation
Well: Mitchell 1830-092F
Field: Bravo Dome
Location: Harding Co. NM**



	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	10:40 AM	11:00 AM	20	0	0	1235	0	0	0		
2	11:15 AM	12:15 PM	60	100	100	1592.3	17.9	17.9	106		
3	12:15 PM	1:15 PM	60	200	100	1642.1	48.7	30.8	198		
4	1:15 PM	2:15 PM	60	300	100	1685.4	90.8	42.1	295	1685.4	
5	2:15 PM	3:15 PM	60	400	100	1713.6	154.7	63.9	398	1713.6	
6	3:15 PM	4:15 PM	60	500	100	1735.2	240.6	85.9	497	1735.2	
7	4:15 PM	5:15 PM	60	700	200	1762.2	343.7	103.1	698		1762.2
8	5:15 PM	6:15 PM	60	900	200	1777.2	469.1	125.4	898		1777.2
9	6:15 PM	6:30 PM	15	0	0	1699.2					
									0.2467	1613.5	
									0.075	1709.8	
									intersect	560.861969	BPD
									BHP PSI	1751.86465	PSIA



Hess Corporation
Mitchell 1830-092F
March 29, 2010



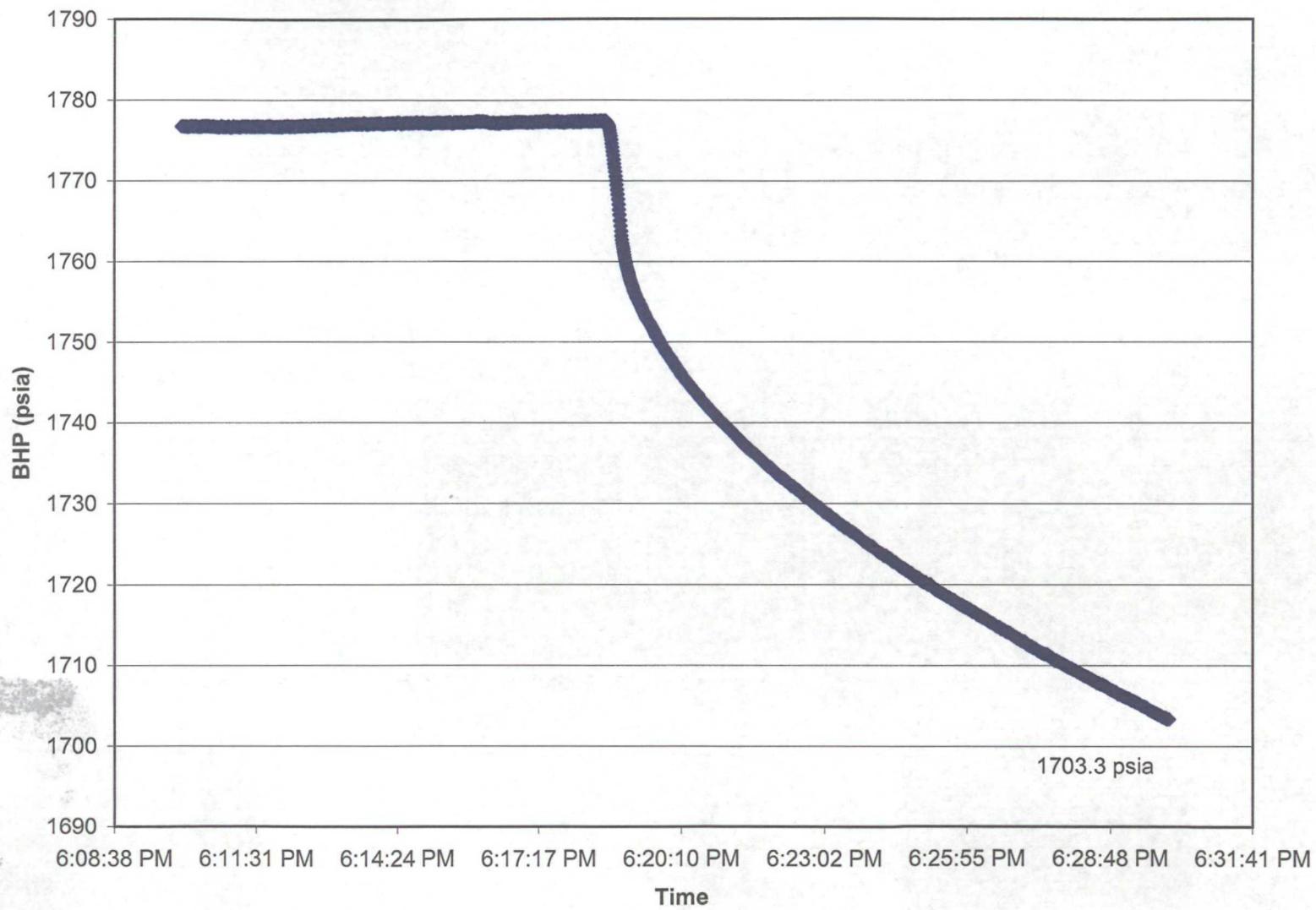


Figure 3: 15 min. ISIP

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC	LEASE NAME Bravo Dome West		API # 30-021-20494	WELL NO. 1830-092F	
<p>GL 4,362'</p> <p>8.625" 24# 1,121'</p> <p>2.375" 4.6#</p> <p>4" 10.8# 1,569'</p> <p>5.5" 15.5# Shoe @ 1,592'</p> <p>AS1X Packer 1521'</p> <p>OH 1,592' - 1,800'</p> <p>1,800' TD</p>	TYPE COMPLETION: <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> DUAL		LOCATION: 1920' FNL & 1970' FWL, Sec 09, T.18 N., R. 30 E		
	TD 1,800'	PBD 1800	KB 4,373'	DF	
	COD	DOD	GL 4,362'		
	NO. PROD. WELLS ON LEASE		PRODUCTION SWD	Flowing	
	ZONE TO BE WORKED ON:		CURRENT COMPLETION ZONE:		
	CSG. PERFS:		Open Hole: 1592' - 1800'		
	CURRENT TEST (SHOW DATE)				
	Injection				
	CASING BREAKDOWN				
	SURF.	" hole	SIZE: 8.625" 24#	DEPTH	1,121'
INTER.	" hole	SIZE: 5.5" 15.5#	DEPTH	1,592	
Liner	" hole	SIZE: 4" 10.8#	DEPTH	1,569'	
TUBING # JTS.		SIZE: 2.375" 4.6#	OE DEPTH	1521'	
Notes:					
<u>2 3/8" tbg. volume</u>		<u>0.00386598 bbls/ft</u>	Total BBLs		
			6		
<u>4.75" OH volume (10.75"-7" csg.)</u>		<u>0.02191598 bbls/ft</u>			
			5		
PREPARED BY:		Dan Cordle		06/14/2011	