PT6W APPINO. 1002731742

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



÷		<b>ADMINISTRATIVE APPLIC</b>	ATION CHECKLIST	•
TH	IIS CHECKLIST IS A	MANDATORY FOR ALL ADMINISTRATIVE APPLICATION		AND REGULATIONS
Applic	ation Acronym	WHICH REQUIRE PROCESSING AT THE D	NVISION LEVEL IN SANTA FE	30-025-0776
	[DHC-Dow	indard Location] [NSP-Non-Standard Prora Inhole Commingling] [CTB-Lease Comm ind Commingling] [OLS - Off-Lease Stora [WFX-Waterflood Expansion] [PMX-Pres [SWD-Salt Water Disposal] [IPI-Injosal] [IPI-Injosal]	ingling] [PLC-Pool/Lease Com age] [OLM-Off-Lease Measure ssure Maintenance Expansion] ection Pressure Increase]	mingling] 1090 ment]
[1]	TYPE OF A	PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous E  NSL NSP SD		esponse]  (2)  (2)
	Check [B]	k One Only for [B] or [C]  Commingling - Storage - Measurement  DHC CTB PLC	PC OLS OLM	1207
	[C]	Injection - Disposal - Pressure Increase - I WFX PMX SWD		
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Wh.  Working, Royalty or Overriding Roy		
	[B]	Offset Operators, Leaseholders or Su	arface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent Appr	roval by BLM or SLO ublic Lands, State Land Office	
	[E]	For all of the above, Proof of Notific	cation or Publication is Attached,	and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INFORMA ATTON INDICATED ABOVE.	ATION REQUIRED TO PROC	ESS THE TYPE
	al is accurate a	TION: Thereby certify that the information and complete to the best of my knowledge, equired information and notifications are sub	Lalso understand that no action v	
	Note	: Statement must be completed by an individual wi	ith managerial and/or supervisory capa	city.
Amber	Cooke	WIMPELOOKE	Engineering Tech	01/26/2010
Print or	r Type Name	Signature	Title	Date
			amber.cooke@apachecorp.c	moo
			e-mail Address	



WWW.APACHECORP.COM Telephone: (918) 491-4900

January 21, 2010

State of New Mexico Oil Conservation Division 1220 South St. Francs Drive Santa Fe, New Mexico 87505

Attention:

Mr. William V. Jones

RE:

Request for Surface Injection Pressure Amendment - Hearing Order 14360 R-1376-0

Blankenship #2 (30-025-07767)

13176

Lea County, New Mexico

Dear Mr. Jones:

Apache Corporation requests an amendment to the 0.2 psi/ft surface pressure limitation for the Blankenship #2. A step-rate test was performed on January 20, 2010 and this test indicates that the parting pressure occurs at a surface pressure of 2090 psi (0.35 psi/ft). Therefore, Apache Corporation is requesting the allowable surface injection pressure limitation is increased from 1209 psi to 2090 psi.

Your approval of said amendment would be greatly appreciated. Please call (918-491-4982) or email (jeff.frederick@apachecorp.com) with any questions or comments.

Sincere

Attachments

Cc: Amber Cooke, Engineering Tech

7090@ 135 2090@ 135 2090-50 2040

jlf,bm

Blankenship #2 SRT

Depth 460 Fluid Wt 9

4600 ft 9.2 ppg

		0)		∞ <sub>0</sub>	9	.5	0	3	4	∞ 00	9	11	8
Bottom	Hole	Pressure	(psi)	2748	3386	4015	4290	4463	4584	4788	4846	5081	4298
	Hydrostatic	Pressure	(psi)	2201	2201	2201	2201	2201	2201	2201	2201	2201	2201
	Friction	Pressure	(psi)	29	59	86	146	202	267	339	419	207	0
	Surface	Pressure	(psi)	576	1244	1912	2235	2465	2650	2926	3065	3387	2097
		Rate	(bbl/min)	1	1.5	2	2.5	3	3.5	4	4.5	5	ISIP

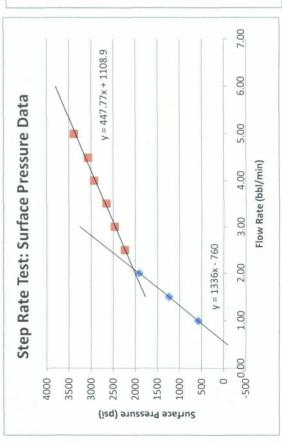
		Rate at
	Parting	Parting
Location	Pressure	Pressure
	(psi)	(bbl/min)
Bottom hole	4185	2.1
Surface	2090	2.1

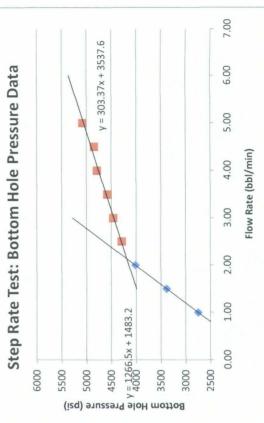
This is the surface pressure that corresponds to the 4185 psi bottom hole parting pressure.

Frac Grad	psi/ft	0.91	0.93
		SRT	SIP

New Maximum Requested Surface Pressure

2090 psi





## **CPS Treatment Report**

Customer: APACHE Well Name & No.: BLANKENSHIP #2

County: LEA State: NM

ESO#: DJUZ7ZVJ26

Formation: 0.00

Date: January 20, 2010

Well type: Oil

/ Old

Stim.

## **Customer Information**

Address: P.O.BOX DRAWER D

City, State: MONUMENT NM Zip Code: 88265

Customer Representative: ALBERT MAES



## Remarks

Arrive on Location: Depart Location:

6:00 AM 2:00 PM

Total Hours: 8.00

						Section and section		MARK TOTAL ALANGE
	Depth	O.D	Weight	I.D		٧	olume	Bbls/linear ft.
Tubing 1 length ft.:	N/A		0	0.000		0.00	BBLS.	0.00000
Tubing 2 length ft.:						0.00	BBLS.	0.00000
Casing 1 length ft.:		5 1/2	0.00	0.000		########	BBLS.	0.00000
Casing 2 length ft.:						0.00	BBLS.	0.00000
Open Hole length ft.:		N/A	N/A	W		0.00	BBLS.	0.00000
Combined Depth ft.:					Annular Vol.:		BBLS.	0.00000

		Depth	Vol.					
Top Perf/Open Hole:		N/A	#VALUE!	Maximum Pressure:		3387	ISIP:	2097
Bottom Per	N/A	#VALUE!	Average Pressure:		2229	5 min:		
	ber of Perfs:	N/A		Maximum Rate:		:	10 min:	
	Perf Size:	0.31	in.	Average Rate:		% <b>!</b>	15 min:	
Packer Depth:		N/A	ft.	Fluid to Recover:			Proppant Total:	
Time STP		CAS	Rate	Stage	Total	Comments		
6:00:04 AM	0	0	0.0	0.0	0.0	SAFETY MEL	nantanina spippija angalaha angalaha angalaha angalaha angalaha angalahan	19 19 July 1 - 1 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 -
6.00.04 AW	U	<u> </u>	0.0	0.0	0.0	STEP RATE	_11146	
7:54:02 AM	0	0.0	1.4		0.5	START WAT	FR	
8:23:55 AM	0	0.0	1.3		40.7	PSI & RATE		
8:39:04 AM	115	_ <u> </u>	1.0		53.4	LOADED	Oncon	
8:51:09 AM	369	<del></del>	1.1		69.5	PSI & RATE	CHECK	
9:06:46 AM	576		1.1		87.0	END OF 30 M		
9:07:43 AM	645		1.6		87.6	INCREASED		
9:27:52 AM	968		1.5		113.0	PSI & RATE		* * * * * * * * * * * * * * * * * * * *
9:42:55 AM	1244		1.5		136.0	END OF 30 M		
9:43:08 AM	1313		2.1		136.8	INCREASED		
9:58:25 AM	1728		2.1		169.0	PSI & RATE		
10:13:35 AM	1912		2.1		200.0	END OF 30 M		
10:13:53 AM	2005		2.5		200.8	INCREASED	RATE	
10:29:14 AM	2166		2.5		239.6	PSI & RATE (	CHECK	
10:44:10 AM	2235		2.5		278.3	END OF 30 M	1IN	
10:46:15 AM	2350		3.1		282.7	INCREASED	RATE	
11:01:28 AM	2442		3.2		331.0	PSI & RATE (	CHECK	
11:16:11 AM	2465		3.1		378.2	END OF 30 M	1IN	
11:16:48 AM	2558		3.5		380.0	INCREASED	RATE	
11:32:11 AM	2604		3.5		434.0	PSI & RATE (	CHECK	
11:47:05 AM	2650		3.5		485.0	END OF 30 N	11N	
11:47:26 AM	2811		4.0		486.5	INCREASED	RATE	
12:02:40 PM	2880		4.0		549.0	PSI & RATE (	CHECK	
12:17:05 PM	2926		4.0		608.0	END OF 30 N	11N	
12:18:04 PM	3041		4.5	,	612.0	INCREASED	RATE	
12:34:15 PM	3041		4.5		684.0	PSI & RATE (	CHECK	
12:48:14 PM	3065		4.5		745.0	END OF 30 N	IIN	
12:48:45 PM	3241		5.1		748.0	INCREASED		•
1:03:55 PM	3341		5.1		825.6	PSI & RATE (		
1:18:24 PM	3387	-	5.0		898.4	END OF 30 N	IIN	

