T. Warnell

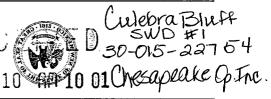
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LP I

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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 CHECKLIS	51
TH	HIS CHECKLIST IS MA	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION R WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	ULES AND REGULATIONS
Applic	[DHC-Dowi		Commingling] surement] on]
[1]	-	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	Nesponsej
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	NC Mollow 3 20 Acres Amoco 1978 5w0-481-1992 Chiso peoke 2005
101	[D]	Other: Specify	
[2]	[A] [B]	ON REQUIRED TO: - Check Those Which Apply, or □ Does Not Ap □ Working, Royalty or Overriding Royalty Interest Owners □ Offset Operators, Leaseholders or Surface Owner □ Application is One Which Requires Published Legal Notice	ply
	[D] [E]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attack Waivers are Attached	ned, and/or,
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PERTITION INDICATED ABOVE.	ROCESS THE TYPE
	/al is accurate a	FION: I hereby certify that the information submitted with this applicated complete to the best of my knowledge. I also understand that no act iquired information and notifications are submitted to the Division.	
LIO Print o	Note: da Good r Type Name	Statement must be completed by an individual with managerial and/or supervisory Linda Good Regulatory Comp Signature Title	

e-mail Address

Submit 3 Copies, To Appropriate District Office	State of New Mexico	Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	June 19, 2008 WELL API NO.
<u>District II</u>	OIL CONSERVATION DIVISION	30-015-22754
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE X FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Saika 1 6, 1411 07303	6. State Off & Gas Lease No.
SUNDRY NOTICI (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA"	ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A TION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name Culebra Bluff SWD
PROPOSALS.) 1. Type of Well: Oil Well G	as Well 🔲 Other SWD Well	8. Well Number ₁
2. Name of Operator Chesapeake Op	perating, Inc.	9. OGRID Number 147179
3. Address of Operator P.O. Box 184		10. Pool name or Wildcat SWD; Delaware
4. Well Location		
Unit Letter E : 19	980' feet from the North line and	860' feet from the West line
Section 2	Township 23 S Range 28 E	NMPM County Eddy
	11. Elevation (Show whether DR, RKB, RT, GR, a 3008.5 GR	etc.)
12 Charle An	proprieta Poy to Indicata Natura of Nativ	oa Panart ar Othar Data
12. Check Ap	propriate Box to Indicate Nature of Notice	ce, Report of Other Data
NOTICE OF INT	-	JBSEQUENT REPORT OF:
	PLUG AND ABANDON REMEDIAL W	
 -	CHANGE PLANS	DRILLING OPNS.□ P AND A □ □ ENT JOB □
DOWNHOLE COMMINGLE	MOETH LE GOME L'O'NOING/GEIM	
OTHER: Injection Pressure Increase	(IPI) 🛛 OTHER:	П
13. Describe proposed or complet	ed operations. (Clearly state all pertinent details,	, and give pertinent dates, including estimated date
of starting any proposed work or recompletion.). SEE RULE 1103. For Multiple Completions:	Attach wellbore diagram of proposed completion
	fully request to increase the injection pressure for ached application letter along with step rate test in	
A copy of this application has been	submitted to the Artesia New Mexcio Oil Conser	vation Division office.
	•	
	2.2.2.	
Spud Date:	Rig Release Date:	
I hereby certify that the information ab	ove is true and complete to the best of my knowle	edge and helief
2		
SIGNATURE Linda L	TITLE Sr. Reg. Compliance S	Specialist DATE 12/09/2008
Type or print name Linda Good	E-mail address: linda.good@g	phk.com PHONE: (405)767-4275
For State Use Only		(100)/10/ 12/3
APPROVED BY:	TITLE	DATE
Conditions of Approval (if any):	1111/1/	DATE

November 24, 2008

Will Jones NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505

Dear Mr. Jones,

Chesapeake Energy respectfully requests to increase the injection pressure on the Culebra Bluff SWD #1. This SWD has been active since 1992 and a step rate test has not been performed since 1992. Please see the information below for a summary of the current pressure limitation for the Culebra Bluff SWD #1.

Well	API	Current Inj Press Limit	Order	Order Date	Comments
Culebra Bluff SWD #1	3001522754	′86 0	SWD-481	7/8/1992	Administrative Order based on 0.2 psi/ft

A step rate test was performed on the Culebra Bluff SWD #1 on June 25th, 2008. The test results indicate there is room for an increase in maximum injection pressure. Results from the step rate test are attached and summarized in the table below.

Well	API	Fracture Pressure	Requested (ŋj Press Limit	Date SRT Ran
Culebra Bluff SWD #1	3001522754	1,502	``1,452 `	6/25/2008

Should you require further information or have any questions, please call Doug Rubick at 405-208-3185.

Sincerely,

Doug Rubick

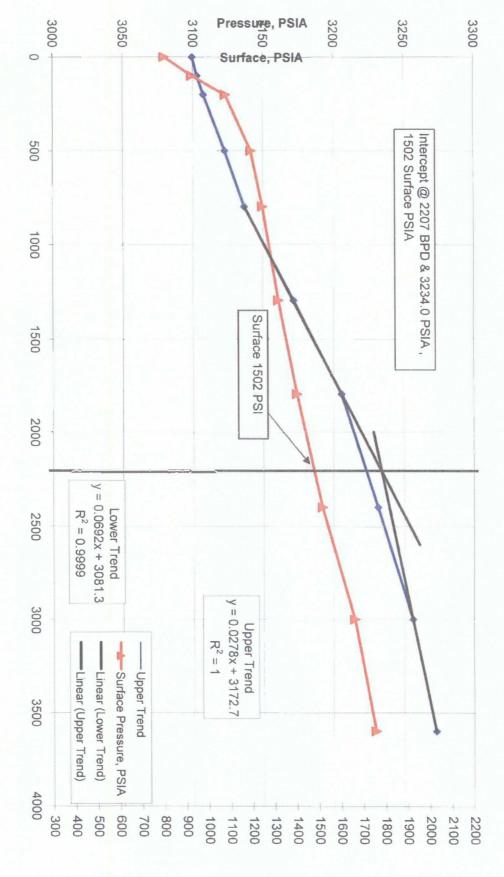
Field Engineer

Amico
We Morrow

5 ND-481-

1452

Chesapeake Energy Corp. Culebra Bluff SWD # 1
Step Rate Test 06-24-2008



Rate, BPD

Step Rate Test

Chesapeake Energy
Culebra Bluff.SWD # 1
Field: Eddy County, NM



·		0	0	569.4	1294.7	3222.5	-3600	0	15	6:15 PM	6:00 PM	11
3272.9		3502	145.9	569.4	1755.6	3272.9	600	3600	60	6:00 PM	5:00 PM	10
3256.2		3053	127.2	423.5	1661.1	3256.2	600	3000	60	5:00 PM	4:00 PM	9
		2374	98.9	296.3	1516.1	3231.6	600	2400	60	4:00 PM	3:00 PM	œ
	3205.7	1843	76.8	197.4	1402.3	3205.7	500	1800	. 60	3:00 PM	2:00 PM	7
	3171.6	1291	53.8	120.6	1318.5	3171.6	500	1300	60	2:00 PM	1:00 PM	ര
	3136.5	766	31.9	66.8	1247.5	3136.5	300	800	60	1:00 PM	12:00 PM	Ųń,
		514	21.4	34.9	1195.1	3122.7	300	500	60	12:00 PM	11:00 AM	4
		194	8.1	13.5	1081.3	3107.6	100	200	60	11:00 AM	10:00 AM	ų
		130	5.4	5.4	928.8	3103	100	100	60	10:00 AM	9:00 AM	2
		0	Ö	0	805.2	3099.6	Ö	0	10	9:00 AM	8:50 AM	ٻ
Trend	Trend	врр	188	BBL	PSIA	PSIA	ВРО	BPD	Min	E Time	S Time	
Upper	Lower	Avg.	Delta	Cum	Surf	H. Pressure	Step B	ast Rate	D Time 1			*

0.0692 0.0278 3081.3

int point: 2207.7295 BPD 3234.0749 Psia



Current Wellbore Schematic with Survey Tracks

CULEBRA BLUFF SWD

Field: HERRADURA BEND
County: EDDY
State: NEW MEXICO
Elevation: GL 3,009.00 KB 3,
KB Height: 19.00

KB 3,028.00

Location: SEC 2, 23S-28E, 1980 FNL & 859 FWL

Spud Date: 12/13/1978 Initial Compl. Date: API #: 3001522754 CHK Property #: 891198 1st Prod Date: PBTD: Original Hole - 5765.0 TD: 12,900.0

Report Printed: 12/16/2008

		Well Config: - Original I	Hole, 12/16/2008 3:16:04 PM		Well Histor	
KB (MD)	fikb (TVD)	Incl	Schematic - Actual		Date: 2/19/1979	PERF @ 12326-12333 & 12415-12423 w/ 4 jspf. ACDZ w/
19 399		34445 Original Hole _{gi} 20 _j 19 _{j 20} 400 16" 65# H-40 Surf Csg,		isteriest als ist ist in reconstruction (s. 1512 valuetiesing in 1517	4/3/1979	3500 gal 7.5% acid. CIBP @ 12200' w/ 35' cmt. PERF @ 11722-730 w/ 4 jspf. ACDZ w/ 2000
400 400		400 Cmt w/ 500 sx. Circ,			4/18/1979	gal 7.5% acid. ACDZ w/ 2000 gal 7.5% acid. PERF @ 11512-516 w/ 4 jspf. ACDZ w/
1,955		400) Original Hole, 14 3/4,				3000 gal 7.5% acid.
		400, 2,900			6/28/1981	CIBP @ 11000' w/ 35' cmt. PERF @
2,899 2,900		TOC by TS, 1,955 10 3/4" 40.5# K-55 Int				8740-90 w/ 1 jspf. ACDZ w/ 5000 gz 15% HCI. CIBP @ 8600'. PERF @ 17654-7680 w/ 2 jspf. ACDZ w/ 1000
2,900	i	1 Csg, 2,900				gal gld 15% HCi & 12000 gal 30# gl
4,300		Cmt w/ 1800 sx. Circ w/ 75 sx, 2,900		4,300, 4,800,	1/6/1982	brine and 18000# 100 mesh salt. CIBP @ 7212'. PERF Bone Springs
4,800			『	4/13/1993		@ 6349-82, 6440-45, 6492-6520 w
5,765		PBTD, 5,765, 4/13/1993				jspf. PERF @ 6442-71, 75-80,
5,800		CIBP w/ 35' cmt, 5,800		*		6688-6718 w/ 2 jspf. ACDZ w/ 5000 gal 15% Ne HCL.
5,802		Cast My os and speed.			12/9/1985	CIBP @ 6300' w/ 35' cmt. PERF @
6,062		DELAWARE COCO		6.062, 6.126		6062-6126 w/ 4 jspf. ACDZ w/ 500 gal 7.5% NeFe. FRAC w/ 7560 gal
6,126		DELAWARE, 6,062, 6,126	₩ ₩ -	6,062, 6,126, 12/9/1985		gld FL w/ 10600# 12/20 Ottawa sd.
		9,120			3/25/1991	PERF @ 6178-6225 w/ 32 holes.
6,178				6,178, 6,225,		ACDZ w/ 2000 gal 7.5% HCl. SQZI perfs @ 6062-6126. DO cmt. FRAC
6,225				3/25/1991		6178-6225 w/ 18700# 20/40 sd &
6,265		· ·			4/13/1993	18000 gai gld wtr. CIBP @ 5800' w/ 35' cmt. PERF @
6,300		CIBP w/ 35' cmt, 6,300			4/10/1995	4300-4800. ACDZ w/ 5000 gal 15%
6,302	1 1	- 4				HCI. FRAC w/ 66000 gal x link w/
6,349				6 740 6 707 1/6/1007	6/7/2000	108000# 12/20 sd. ACDZ w/ 2000 gal 15% NeFe.
6,382			一种	6,349, 6,382, 1/6/1982	8/13/2001	ACDZ w/ 2000 gal 15% NeFe.
6,440					7/15/2003	ACDZ w/ 2000 gal 15% HCl. ACDZj w/ 2000 gal 15% HCl.
6,442					11/12/2005	ACD2] W/ 2000 gai 13/6 flot.
6,445				6,440, 6,445, 1/6/1982		
6,480	Ì			6,442, 6,480, 1/6/1982		l l
	ļ					
6,492				6,492, 6,520, 1/6/1982		
6,520						
6,688		Original Hole, 9 1/2,		 6,688, 6,718, 1/6/1982		
6,718	1	2,900, 11,450	7 7			
7,212		CIBP, 7,212				
7,214			in the same of			
7,654	İ			7,654, 7,680,		
7,680			1	6/28/1981		
8,600		CIBP, 8,600			1	
8,602						
8,740			, 1 12 .	8,740, 8,790,	,	
8,790				6/28/1981		
10,965						
11,000		CIBP w/ 35' cmt, 11,000				
11,002	ļ	CAD: 41, 33 GHQ 12,000				
11,115		Top of Liner, 11,115		•		
11,115		100 or mice, 11,115;				
-		7 5/8" 37.5# Int 2 Csg,				
11,449		11,450				•
11,450	T	Cmt w/ 1850 sx, 11,450		*		
11,512			4	11,512, 11,516,		
11,516	1		'T	4/18/1979		
11,722			E # #.E	11,722, 11,730,		
11,730	}	Onin! 11- - 6 1 12	** F*	4/3/1979		· ·
12,165		Original Hole, 6 1/2, 11,450, 12,900				
12,200	1	CIBP w/ 35' cmt, 12,200				
12,202	!					
12,326	1		1 1.	12,326, 12,423,		
12,423			I ∰ ≱ {	12,326, 12,423, 2/19/1979		
12,899		5" Liner, 12,900	H H			
	1	Cmt w/ 285 sx, 12,900			1	1
12,900		TD, 12,900, 2/12/1979	1 5000000000000000000000000000000000000		· l	

Page 1/1