	the second s			HOBBS
m 3160-5 igust 2007)	UNITED STATES	ERIOR	F	ORM APPROVED MB NO. 1004-0135
	BUREAU OF LAND MANAGE	MENT	5. Lease Serial	xpires: July 31, 2010 No.
SUNDR	Y NOTICES AND REPORT	S ON WELLS	NMLC068	281B
abandoned v	vell. Use form 3160-3 (APD)	for such proposals.	6. If Indian, All	ottee or Tribe Name
SUBMIT IN T	RIPLICATE - Other instruction	ons on reverse side.	7. If Unit or CA	/Agreement, Name and/or No
Type of Well	Other: INJECTION		8. Well Name ar BUCK 17 F	nd No. EDERAL SWD 1
Name of Operator CONOCOPHILLIPS COMP	Contact: AS ANY E-Mail: ashley.bergen	HLEY BERGEN @conocophillips.com	9. API Well No 30-025-40	482-00-S1
a. Address	3	b. Phone No. (include area code	10. Field and Po	ool, or Exploratory
MIDLAND, TX 79710	P	h: 432-688-6983	201C SWD	
Location of Well (Footage, Sec.	, T., R., M., or Survey Description)	JANIS	11. County or P	arish, and State
Sec 17 T265 B32E SENW	2284ENI 1950EWI	RECEIVED	LEA COU	NTY NM
		A BARRIER		
12. CHECK AP	PROPRIATE BOX(ES) TO I	NDICATE NATURE OF	NOTICE, REPORT, OR O	THER DATA
TYPE OF SUBMISSION		TYPE O	FACTION	
Notice of Intent	C Acidize	Deepen	Production (Start/Resun	ne) 🗖 Water Shut-Of
Notice of Intent	□ Alter Casing	Fracture Treat	□ Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	🛛 Other
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon	Well Spud
	Convert to Injection	Plug Back	Water Disposal	
Attach the Bond under which the y following completion of the involu-	ved operations. If the operation results	s in a multiple completion or rec	completion in a new interval, a For	m 3160-4 shall be filed once
Attach the Bond under which the r following completion of the invol- testing has been completed. Final determined that the site is ready for ConocoPhillips completed th ConocoPhillips will proceed BLM approved See attached	Abandonment Notices shall be filed of r final inspection.) The step rate test on 7/24/15. At to request a higher injection rate way for 1227, graph.	tached are the results. tached are the results.	herd.	ian of field within 50 days m 3160-4 shall be filed once leted, and the operator has
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JAN 1 9 2016

STEP RATE TEST DATA FOR BLM

 OPERATOR:
 CONOCOPHILLIPS
 WELL:
 BUCK FEDERAL SWD 1

 DATA COLLECTION DATE:
 07/24/15
 API#:
 3002540482
 LEASE:
 NM495931

 Sfc Loc:
 T26S-R32E, SEC 17, 2284FNL&1940FWL
 API#:
 3002540482
 LEASE:
 NM495931

 TBG O.D.: 3-1/2"TBG WT: 9.3
 GRADE: L-80 COUPLING: 8 rd EUE
 Packer at : 5387'

 Top Injection Depth: 5410FT_X .2 PSIG/F=EXPECTED SURFACE FRACTURE: 1082PSI

 WITH MUD WT SCALE:
 9.09
 Ibs/gal Msrd NO Flow Formation PSIG: 3248

 INJECTION FLUID LBS/GAL: 9.09
 Hydrostatic press of fluid at top depth of injection: 3248

 Beginning well head pressure:
 585
 Target max rate bbl/d: 11,000

- 1. Take a charted recorder of shut-in pressure for no less than 48 hrs. If the shut-in pressure is above the expected fracture pressure, the well head pressure will need to be bled off before beginning the step rate test.
- Perform a minimum of 7 steps, recording rate to ±0.1 bpm and surface pressure to ±10 psig in five minute intervals. The first two step rate pressures must be below .2 psig/ft x depth at top of injection.
- 3. The last two 5 minute surface pressure readings of each (minimum 30 minute) steps are to be within 15 psig of each other. If not, hold that step injection rate past the 30 minute step until two consecutive pressure readings are within 15 psig. Record the average of those two readings as the data point for that step.

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Buck Federal 17-1 SWD Step Rate Test Summary

The Buck test was completed on July 24, 2015. The well was shut-in Tuesday, the 21th and a chart recorder was connected to the well at 10:00. Chart recorder was removed 72 hours later. The chart recorder was a two day recorder and a one day chart was used. The recorder pen overlayed one day of data. The test was scheduled for Thursday morning but due to equipment availability was moved to Friday morning. Service equipment was hooked up and gauge was run in hole and landed at the top of perf, 5410ft. With no flow, a BHP gauge reading of 3248 psi and a surface pressure of 585 psi was recorded. The targeted max injection rate was estimated at 11,000 b/d. An anticipated bottom hole fracture pressure was 3787 psi. The injection test started at 13:40 with a rate of 5% of max flow, 550 b/d rate. Every five minutes the surface and BHP pressure was recorded. See data sheet for results. Each step took 30 minutes as per BLM conditions. Thirty minutes into step 1 the surface pressure was not within 15 psi of last interval so I continued for another 5 minutes. At that time pressure was within 15 psi and I continued to step 2. Between each step, rate was stabilized in less than one minute. On step 6, between the 10 minute and 15 minute interval the pump rate was slightly interrupted due to changing water tanks. The pressure went down 13 psi but then continued to stabilize. Step 6 extended an extra 10 minutes to verify pressure stability and then went to step 7. At step 7, the pressure on the surface and BHP slightly decrease throughout the test by 2-3 psi. The test was complete. The pump was shut down and instantaneous pressure readings were taken. The line to the pump could not be shut in because the pressure transmitter was upstream of valve and the surface reading of the well would be blocked in. 5, 10 and 15 minute shut-in pressures were recorded. Test complete.

The test reached the targeted injection rate. The BHP started showing signs of decreasing by 3 psi. The BHP at max injection rate was 3489 psi.

Buck Step Rate Test

Step 1

TARGET TEST RATE (5% of 11,000 b/d= 1:40 START TIME: TARGET TEST RATE

0.38

END TIME:	2:15				14 3 C 14				-
TIME	5 MIN	10 MIN	15 MIN	20 MIN	25 MIN	30 MIN	35 MIN	40 MIN	45 MIP
URFACE PRESSURE PSI	627	646	674	691	703	721	731		
ormation Pressure PSI	3264	3269	3275	3279	3283	3285	3288		
-low Rate (BPM)	0.21	0.35	0.43	0.38	0.4	0.39	0.4	1	

Step 2

TARGET TEST RATE (10% of 11,000b/d= 2:15 START TIME: TARGET TEST RATE

ppm 0.76

60 MIN **55 MIN** 50 MIN 45 MIN 40 MIN **35 MIN** 3303 0.76 774 30 MIN 771 3301 0.69 **25 MIN** 769 3299 0.7 **20 MIN** 0.76 766 3297 **15 MIN** 763 0.73 3295 **10 MIN** 2:45 751 3292 0.7 5 MIN END TIME: SURFACE PRESSURE PSI Formation Pressure PSI Flow Rate (BPM) TIME

Step 3

TARGET TEST RATE (20% of 11,000b/d= 2.45 START TIMF. TARGET TEST RATE

ppm 1.53

	2.1												
END TIME:	3:15												
TIME	5 MIN	10 MIN	15 MIN	20 MIN	25 MIN	30 MIN	35 MIN	40 MIN	45 MIN	50 MIN	55 MIN	60 MIN	
URFACE PRESSURE PSI	825	832	840	848	855	862							
Cormation Pressure PSI	3318	3323	3326	3328	3331	3333		-					
low Rate (BPM)	1.53	1.51	1.52	1.51	1.51	1.51							

Step 4

TARGET TEST RATE (40% of 11,000b/d= *IARGET TEST RATE*

HOBES OCD NIW 094 2016 9 JAN RE VE **55 MIN** 50 MIN **45 MIN** 40 MIN **35 MIN** 3396 3.21 1082 **30 MIN** ppm 3.26 3.1 1080 3393 **25 MIN** 3.21 3390 1081 **20 MIN** 1077 3387 3.27 **15 MIN** 3.23 1073 3381 **10 MIN** 3:15 3:45 3373 3.2 1057 5 MIN START TIME: END TIME: SURFACE PRESSURE PSI Formation Pressure PSI Flow Rate (BPM) TIME

ppm

60 MIN

55 MIN

50 MIN

-

L	7
5	2
0	U
+	5
U	2

TARGET TEST RATE (60% of 11,000b/d= t. TARGET TEST RATE

ppm 4.58

111VIE. 5:43	TIME: 4:15	
JIARI	END	

	A Start											
TIME	5 MIN	10 MIN	15 MIN	20 MIN	25 MIN	30 MIN	35 MIN	40 MIN	45 MIN	50 MIN	55 MIN	60 MIN
SURFACE PRESSURE PSI	1312	1315	1319	1321	1323	1324						
Formation Pressure PSI	3428	3433	3436	3439	3441	3442						
Flow Rate (BPM)	4.6	4.5	4.6	4.6	4.58	4.5						

Step 6

TARGET TEST RATE (80% of 11,000b/d= TARGET TEST RATE

ppm 6.1

Step 7

TARGET TEST RATE (100% of 11,000b/d= TARGET TEST RATE

ppm 7.6

START TIME:	4:55											
END TIME:	5:25											
TIME	5 MIN	10 MIN	15 MIN	20 MIN	25 MIN	30 MIN	35 MIN	40 MIN	45 MIN	50 MIN	55 MIN	60 MIN
SURFACE PRESSURE PSI	2000	1994	1997	1995	1997	1996						
Formation Pressure PSI	3492	3492	3488	3488	3489	3489						
Flow Rate (BPM)	7.6	7.6	7.6	7.6	7.6	7.6						-

Time: 5:25

Formation

Surface

INSTANT SHUT-IN:	066	3489 P	SI
5 MINUTE SHUT-IN:	890	3405 P	SI
10 MINUTE SHUT-IN:	876	3391 P	SI
15 MINUTE SHUT-IN:	868	3384 P	SI



BLM Evaluation of Step Rate Test Data

"The surface pressure transmitter was upstream of valve and the pump could not be shut in."Frac'd between rate steps 4 and 5 per formation pressure graph shown above.Pmp RatePmp RateFrmtnWellheadFormation psig past frac, step 5:StepbpmbpdpsigpsigFormation psig before frac, step 4:0003248585Formation psig rate step difference:

Formation psig before frac, step 4:	3395
Formation psig rate step difference:	47
Fracture of Formation psig indicated:	3433
% psig increase, before frac to fracture:	81
Surface psig past frac, step 5:	1324
Surface psig before frac, step 4:	1081
Surface psig rate step difference:	243
Estimated Surface psig @ fracture:	1277

3442

Star Lange	1 Contraction	Frac d betv	veen rate s	leps 4 and
Part Seals	Pmp Rate	Pmp Rate	Frmtn	Wellhead
Step	bpm	bpd	psig	psig
0	0	0	3248	585
1	0.4	576	3286	726
2	0.75	1080	3302	772
3	1.5	2160	3332	858
4	3.25	4680	3395	1081
5	4.55	6552	3442	1324
6	6.1	8784	3478	1636
7	7.6	10944	3489	1997

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