TYPE IPI

PPRG1330361353



NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -



. g.v.		1220 South St. Francis Drive, Santa Fe, NM 87505
	······································	ADMINISTRATIVE APPLICATION CHECKLIST
	THIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Appli	[DHC-Down	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE Idard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] Inbole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Inbole Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] INFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] INFX-Water Disposal] [IPI-Injection Pressure Increase] Infied Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM BC Operating
	[C]	Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM BC Operating Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD NIPI EOR PPR Other: Specify SWD - 1297 State Six
	[D]	Other: Specify Swin - 1297 South Deuton
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Which Apply, or Does Not Apply 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]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE TION INDICATED ABOVE.
	val is <mark>accurate</mark> ar	TON: I hereby certify that the information submitted with this application for administrative ad complete to the best of my knowledge. I also understand that no action will be taken on this juired information and notifications are submitted to the Division.
	Note:	Statement must be completed by an individual with managerial and/or supervisory capacity.
Print of	or Type Name	Signapure Decations Manager Date J Wacker a be operating. com
		j Wacker abcoperating, com

e-mail Address



P.O. Box 50820 Midland, Texas 79710 Phone (432) 684-9696

4000 N Big Spring, Ste. # 310 Midland, Texas 79705 Fax (432) 686-0600

September 3, 2013

2010 050 -9 P 12: 37

Jami Bailey - Division Director New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Request IPI – Administrative Order No. SWD-1297 – South Denton 6 State #2 SWD Re:

B.C. Operating, Inc. requests an injection pressure-limit increase to 2420 psig at surface for the subject well. The Hobbs District office was notified prior to conducting the step rate test. The 500 1640 Pa attached supporting documentation is listed as follows:

- 1. Administrative Checklist Injection pressure-limit increase
- 2. Step-rate test results
- 3. Wellbore diagram

Please contact our office at 432-684-9696 if any further information is needed to complete this request.

Sincerely,

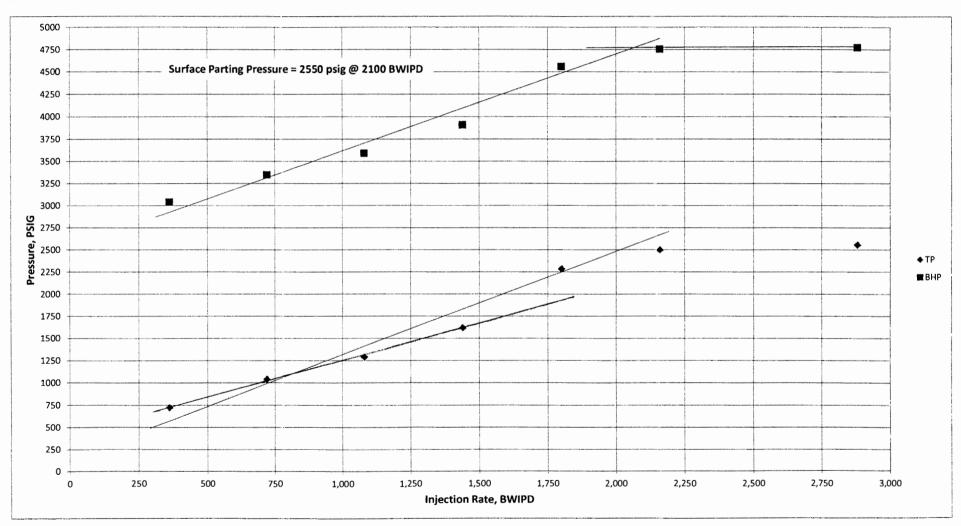
Jason Wacker

Operations Manager

Cc: Elido Gonzales - NMOCD Hobbs District Supervisor

South Denton 6 State #2 Step Rate Injection Test 8-2013.xlsx

Step	Rate, BPM	Inj Rate, BPD	TP	Friction	Hydrostatic Head	внр
1	0.25	360	723	2	2319	3040
2	0.50	720	1039	9	2319	3349
3	0.75	1080	1288	17	2319	3590
4	1.00	1440	1618	29	2319	3908
5	1.25	1800	2283	43	2319	4559
6	1.50	2160	2497	60	2319	4756
7	2.00	2880	2556	102	2319	4773



Step Rate Test Schedule

Well Name South Denton 6 State #2

			Clean	Fluid	Fluid	Stage	Tubing
Stage #	Stage Name	Fluid Type	Rate	Volume	Volume	Time	Pressure
			вРМ	GAL	BBL	Mins	psig
							INITAL PSI
0	Catch Pressure	Water	1.00	1,000	24	24	11011110 731
1	Step Rate 1	Water	0.25	53	1	5	723 PSI
2	Step Rate 2	Water	0.50	105	3	5	1039 PSI
3	Step Rate 3	Water	0.75	158	4	5	1288 PSI
4	Step Rate 4	Water	1.00	210	5	5	1618 PSI
5	Step Rate 5	Water	1.25	263	6	5	2283 PSI
6	Step Rate 6	Water	1.50	315	8	5	2497 PSI
7	Step Rate 7	Water	2.00	420	10	5	2556 PSI
8	Step Rate 8	Water	2.50	525	13	5	
9	Step Rate 9	Water	3.00	630	15	5	
10	Step Rate 10	Water	3.50	735	18	5	
	Step Rate Totals			3,413	81	50	

Flow well back to injection facility or frac tanks for at least 24 hours before the injection test. Catch injected water sample and send to Martin Water Labs in Midland for analysis.



P.O.Box 61193 Midland, Texas 79711 Office# 432-617-0114 Fax # 432-339-0140

· OIL WELL CEMENTING ACID SERVICES

• TURNKEY ABANDONMENTS

• FRACTURING SERVICES

Acid Field Invoice:

H2013-0637

Date of Job

8/23/2013

District:

Hobbs

New Well: Well #:

Lease:

Customer:

BC OPERATING

County/ Parrish

2

S. DENTON 6

Address:

PO BOX 50820

LEA

NM

City:

MIDLAND

State: TX

VAL SAENZ

Field: AP#:

Mileage:

State:

Old Well:

Zip Code: 79710

50

Contact Person/Company man:

575-631-9249

Service Supervisor:

Salesman:

KELLY CROW

Contact Number: Rig Contractor:

NA

Tractor:

Trailer:

AP5007

Equipment Operators:

NΑ

PK1119

KELLY CROW

Rig Number: Head & Manifold

NΑ

T 1071

CARLOS BARRERA

STEPRATE

EXTRA

OLGUIN

Gals.

Acid System

CUSTOMER SUPPLIED WATER

Description	Quantity	Cost per Unit	Unit cost after Discount	List of Price of Services	Discounted Price of Services
Acid Pump 0-5000 psi, 4 hr min	1	2,000.0000	\$1,700.0000	\$2,000.0000	\$1,700.0000
Acid Pump Truck Mileage	50	\$6.7500	\$5.7375	\$337.5000	\$286.8750
Acid Treating Van Mileage	50	\$5.2500	\$4.4625	\$262.5000	\$223.1250
Data Acquisition	1	\$1,000.0000	\$850.0000	\$1,000.0000	\$850.0000
Enviromental Charge	1	\$125.0000	\$106.2500	\$125.0000	\$106.2500
Valve & Swedge Rental 2"	1	\$450.0000	\$382.5000	\$450.0000	\$382.5000

Price Book Total **Discount** 15% Job Total

\$4,175,0000 \$626.2500 \$3,548.7500

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions attached including indementy and waiver of warranty provisions, No additional terms and conditions shall apply to this order.

Signed: X

Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt

Over 30 Days, Discount Voids

Supervisor:

KELLY CROW

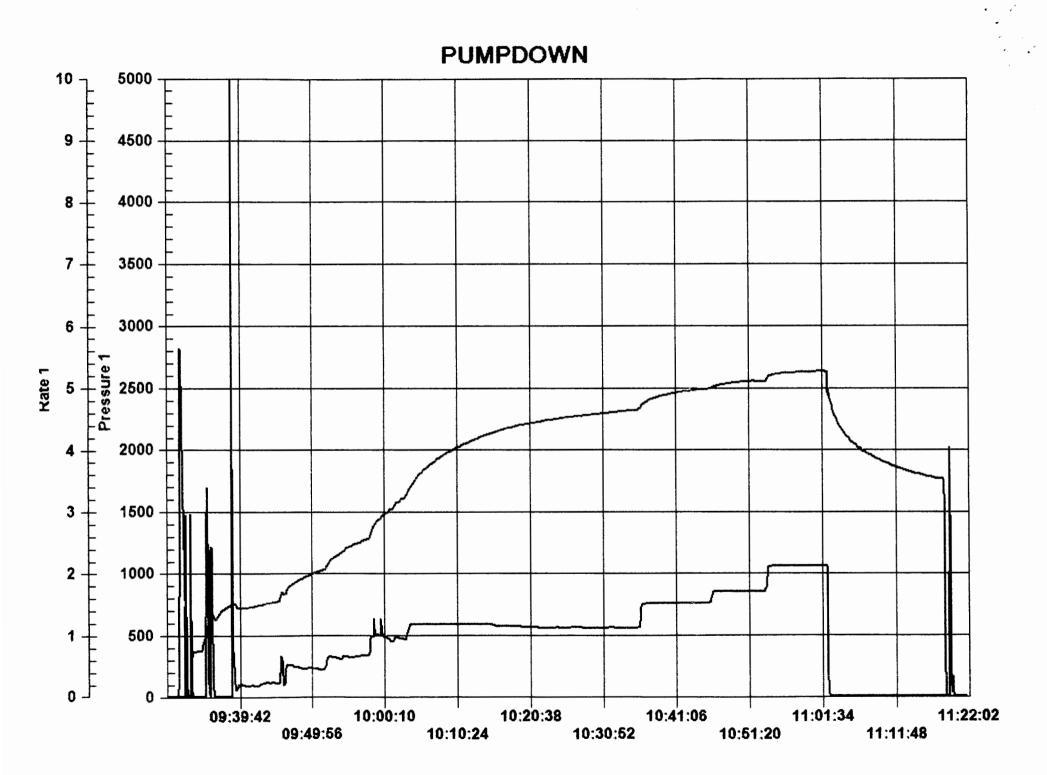


	Date:	i ime:
Truck Called:	8/23/2013	0500
Arrived at location:	8/23/2013	0700
Start Job:	8/23/2013	0800
Finish Job:	8/23/2013	1045
Leave Location:	8/23/2013	1100

Job Log

RISING STAR SER	Custom	er Name:	<u> </u>				Ticket Number:				
P.O. BOX 61	Leas	se Name:	S. DENTON 6			H2013-0637					
MIDLAND, TEXAS		Well #:			2		Supervisor: K		KELL'	KELLY CROW	
OFFICE # 432-617-0114		Тур	e of Job:		STEPRATE		County:	LE			
FAX #432-339-0140			Date:			CUSTON	MER REPRESENTATIVE:		VAL SAE!		NZ
Tubing Size:	2.875		Ca	sing size:	5.	5	1	bg Capacity:	######		
Tubing weight:			Casin	g weight:	1	7		Top Perf:			On Form:
Tubing bbl/Inft			Casin	Casing bbl/inft:		.9763		Bottom Perf:			
Packer depth:				Annulus:		.6625		Flush Top Perf:		1170.50	
End of Tbg:			То	tal Depth:	60	6000		Flush Bottom Perf:		1170.50	
Top Perf:			0				ular Capacity:				
Bottom Perf:			L	iner Size:				Maximum:			Psi
Holes In Csg:			То	p of Liner							
Max psi: 2630	Min psi:	373	Avg psi:	1920	MAX RAT	2	Avg rate:	1.25	IS	IP	2551
Load to recover	Load to recover					1940	5 min	1867	10 min	1781	15 min
				Ac	id Sy	stem	\$				
Acid System:	NA										
Diverter:	verter: NA BALLS NA Rock Salt NA				NA						

Load to n	ecover					1940 5 min 1867 10 min 1781 15 min							
				Ac	id Sy	stems							
Acid System: NA Gallons					NA								
Diverter: NA BALLS			1	NA.	Rock Salt	NA							
		Injection Rate:		Job Pressures		Job Log	ob Log Remarks:						
Time	Rate:	Bbls in		Tbg psi.	Csg psi	000 -09							
0500	<u> </u>				ļ		CALLOUT FO						
0555					<u> </u>	PRE	CONVOY SAFE		NG				
0600	ļ				<u> </u>		DEPART FAC						
0700					_	200	ARRIVE ON LO						
0705				ļ	ļ	PRE RIG UP SAFETY MEETING							
0710	 					RIG UP							
0800	-		_			PRE JOB SAFETY MEETING							
8:22 AM	 			723	0	TEST LINES							
8:36 AM		.2 .5		1039	0	START RATE AT .25 BPM INITIAL OPEN 378 PSI INCREASE RATE TO .5 BPM							
8:43 AM 8:49 AM		.5 75	 -	1288	6	INCREASE RATE TO .75 BPM							
8:55 AM		1		1618	0	INCREASE RATE TO 1 BPM							
9:00AM		25	-	2283	0	INCREASE RATE TO 1.25 BPM							
9:32 AM	1	.5		2497	0		CREASE RATE 1						
9:43 AM		2	+	2556	1 0		REASE RATE T						
9:51 AM		.5	+	2638	1 0	INCREASE RATE TO 2 BPM							
9:59 AM		3		2551	 	ISIP							
10:04AM	 			1940	<u> </u>		5 MIN SHU	TIN					
10:09AM	 		1867	0:00	 	10 MIN SHUTIN							
10:14AM			1	1781		15 MIN SHUTIN							
11:00AM			<u> </u>		1	RIG DOWN AND DEPART LOCAT		TION					
	SUPERVIS	OR		1		CUSTOMER REPRES		Signature					
	Y CRO					X							



South Denton 6 State #2 SWD LEASE & WELL NO. FORMER NAME FIELD NAME South Denton COUNTY & STATE Lea Co., NM LOCATION 330 FNL & 330 FWL, Sec 6, T16S, R38E API NO. K.B. ELEV. 12' **CURRENT** D.F. ELEV. 3781' **GROUND LEVEL SURFACE CASING** SIZE 8-5/8" WEIGHT 24.0# **DEPTH 2019**' GRADE 1035 sx SX. CMT. TOC @ surface **WELL HISTORY** 4/15/2010 APD Approved NMOCD Hearing for Injection Permit, permit approved 8/5/2010 1/16/2011 Drilled well; no San Andres porosity encountered Propose to deepen well by 350' to Glorieta 12/21/2011 Deepended to Glorieta & perforated San Andres No injectivity - tight rock 12/22/2011 Perforate Queen (1 BPM @ 2660#) Leave well TA'd 8/31/2012 Sqz'd Queen & frac'd San Andres/Glorieta 8/4/2013 Installed flush joint liner 5168'-6966' to isolate Queen perforations /wo /Joing 312 3850'
27/8-1305 4-1/2", 11.60#, FL-4S Liner 5168' - 3966' PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# **DEPTH 6500' GRADE** SX. CMT. 980 sx TOC@

PBTD@ 6850'

TD@ 6850'

Tubing Description 3-1/2", 9.3#, J-55 0'-3850' 2-7/8", 6.5#, J-55 3850'-5158' Admin 1040 + 0.2 1040 Queen Squeezed w/ cmt Perf 4436'-4452', 4342'-4353' 4270'-4278', 4210'-4240' Inj Pkr @ 5158' Perf 6322'-6332', 6230'-6240' 5962'-5970', 5230'-5238' 5200'-5222' Injection Interval 5200' - 6850' San Andres & Glorieta 1 openhole 6500 68 50

30-025-39734

