WYT5 ENGINEER 6/28/2016 LOGGED IN ZP Z

PMAM1618052249

INTO WINDS

ABOVE THIS LINE FOR DIVISION USE ONLY

### **NEW MEXICO OIL CONSERVATION DIVISION**

- Engineering Bureau -

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

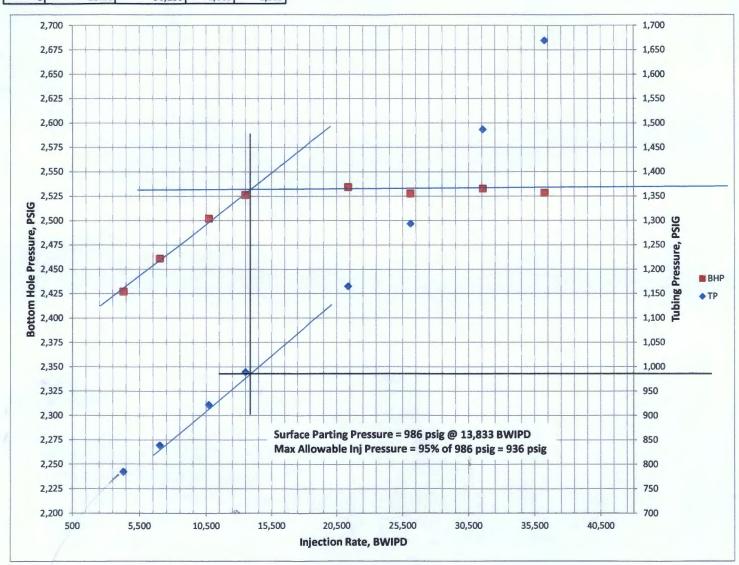


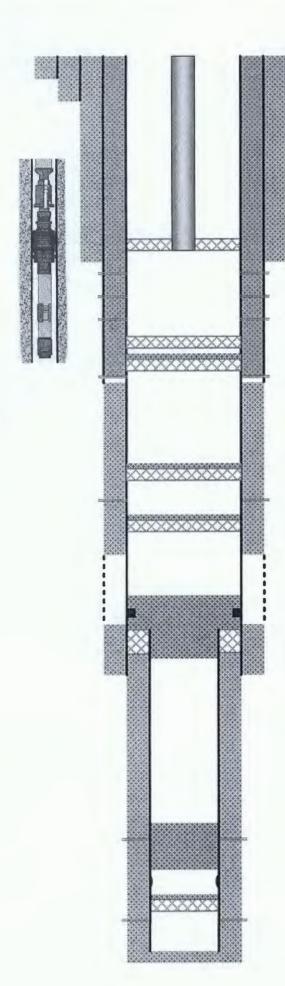
### **ADMINISTRATIVE APPLICATION CHECKLIST**

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

	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
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]	SL-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]
•	
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]  [A] Location - Spacing Unit - Simultaneous Dedication  [In NSL  NSP  SD	[A] Location - Spacing Unit - Simultaneous Dedication
Check One Only for [B] or [C]	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WEX PMX SWD X IPI EOR PPR  30-015-31910	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD X IPI EOR PPR
[D] Other: Specify Swi, Bn45hy	[D] Other: Specify Swo; Bn48hy
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners  4780 2	
[B] Offset Operators, Leaseholders or Surface Owner	
[C] Application is One Which Requires Published Legal Notice	[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	[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,	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached	[F] Waivers are Attached
[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.	
[4] <b>CERTIFICATION:</b> I hereby certify that the information submitted with this application for administrative approval is <b>accurate</b> and <b>complete</b> to the best of my knowledge. I also understand that <b>no action</b> will be taken on this application until the required information and notifications are submitted to the Division.	accurate and complete to the best of my knowledge. I also understand that no action will be taken on this
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.	Note: Statement must be completed by an individual with managerial and/or supervisory capacity.
Sarah Presley Regulatory Analyst 6/2/2016	
Print or Type Name  Title  Date  spresley@bcoperating.com  e-mail Address	spresley@bcoperating.com

Step	Inj Rate, BPM	Inj Rate, BPD	TP	ВНР
1	2.99	4,306	784	2,427
2	4.87	7,013	839	2,461
3	7.43	10,699	922	2,502
4	9.37	13,493	989	2,526
5	14.84	21,370	1,165	2,534
6	18.12	26,093	1,293	2,528
7	21.93	31,579	1,486	2,533
8	25.18	36,259	1,669	2,529





20" Conductor @ 24'
13 %" 48# H40 STC @ 400'

4 1/2 " Tubing - 11.60# IPC L80

Nickle Plated Injection Packer @ 3,714' 9 % " 40# J55 LTC @ 2,768'

Cherry Canyon Perfs 3,785' to 4,080' 98°

CIBP @ 4,550' w/41' cmt

Cement Retainer @ 5,570' w/40' cmt TOC @ 5,650' CBL 1/28/2004

### **Grande State #1**

#### SWD Conversion

- 4 1/2" Buttress x 3 1/2" EUE Crossover
- 7" x 3 1/2" XL On Off Tool w/2.75" X Profile w/SS Gudgeon
- 7" x 3 1/2" 23-29# Halliburton PLT Nickel Plated Packer
- 4' x 3 1/2" 9.3# EUE Box x Pin Tubing Sub
- 2.75" XN Nipple 3 1/2" EUE Pin x Pin
- 4' x 3 1/2" 9.3# EUE Box x Pin Tubing Sub
- 3 1/2" EUE Nickel Plated Pump Out Plug Wireline re-entry guide
- EOT @ 3,722'

Cast Iron Bridge Plug @ 7,870' w/35' cmt

Bone Spring Perfs 7,968' to 8,052' Perforated 03/2008 Cast Iron Bridge Plug @ 8,220' w/35' cmt BTM of cement @ 9,310' CBL 1/28/2004

Cement Plug Top @ 9,918' Bottom @ 10,333' Bad casing collar @ 10,098' 4 ½ " TIW Liner Top @ 10,277'

7" 26# P110 LTC @ 10,700' x 83/4" hole

Cement Plug Top @ 11,804' Bottom @ 12,154' (tagged)

Atoka Perfs 12,122' to 12,140' 36 holes

Casing Collapsed @ 12,155'

Wireline set RBP @ 12,250' w/5'fill Morrow Perfs 12,278' to 12,282' 24 holes

41/2 " Liner - 13.50# P110 LTC @ 12,500'



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

June 2, 2016

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

000 N Big Sprii	ng, Ste. # 310
Midland,	Texas 79705
Fax (4	32) 686-0600
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Re: Request IPI – Administrative Order No. SWD-1623 – Grande State #1 SWD

B.C. Operating, Inc. requests an injection pressure-limit increase to 936 psig at surface for the subject well. The Artesia District office was notified prior to conducting the step rate test. The 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,

Sarah Presley

Regulatory Analyst

# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin
Cabinet Secretary

Tony Delfin Deputy Cabinet Secretary David R. Catanach, Division Director
Oil Conservation Division



Administrative Order SWD-1623 April 19, 2016

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Pursuant to the provisions of Division Rule 19.15.26.8(B) NMAC, BC Operating, Incorporated (the "operator") seeks an administrative order to re-enter and recomplete the Grande State Well No. 1 with a location 660 feet from the North line and 1980 feet from the West line, Unit letter C of Section 32, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, for the purpose of produced water disposal.

### THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8(B) NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified. One objection was received and the application was assigned Case No. 15442. The objection was later withdrawn and the application was returned to the administrative review process. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

### IT IS THEREFORE ORDERED THAT:

The applicant, BC Operating, Inc. (OGRID 160825) is hereby authorized to utilize its Grande State Well No. 1 (API No. 30-015-31910) with a location 660 feet from the North line and 1980 feet from the West line, Unit letter C of Section 32, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, for disposal of oil field produced water (UIC Class II only) through a perforated interval within the Bell Canyon and Cherry Canyon formations from 3380 feet to 4350 feet. Injection shall occur through 3.5-inch or smaller, internally-coated tubing and a packer set a maximum of 100 feet above the top perforation.

This order limits disposal to those sources associated with production by the applicant, BC Operating, Inc. Any consideration for the conversion of this well to a commercial disposal operation shall require re-application for approval by the Division.

### IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface. This includes the well construction proposed and described in the most recent application (contained in the Montgomery & Andrews Law Firm correspondence dated March 28, 2016) and,

Administrative Order SWD-1623 BC Operating, Inc. April 18, 2016 Page 2 of 3

if necessary, as determined by the District Supervisor.

Prior to commencing injection, the operator shall remedial cement the annulus of the 7-inch production casing from 5600 feet to surface. If the cement does not circulated to surface, then the operator shall run a radial cement bond log (or equivalent) showing placement of cement for the 7-inch casing. The operator shall supply both the Division's District II office and Santa Fe Bureau office with a copy of the log. If the bond log demonstrates successful placement of cement in the annulus to a minimum depth of 2268 feet, then no additional remedial cement action shall be required for the 7-inch casing. If the remedial activity does not place 500 feet of cement above the 9½-inch intermediate casing shoe, then the operator shall file a sundry with Division's District II office for a second remedial cement using the bond log to complete the top of cement to the minimum depth of 2268 feet.

The operator shall place a cast-iron bridge plug (or equivalent) with a cement cap at a depth of 4550 feet.

Within two years after commencing disposal, the operator shall conduct an injection survey, consisting of a temperature log or equivalent, over the entire injection interval using representative disposal rates. Copies of the survey results shall be provided to the Division's District II office and Santa Fe Bureau office.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT procedures and schedules shall follow the requirements in Division Rule 19.15.26.11(A) NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 676 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well. At the discretion of the supervisor of the Division's District II office, the operator shall install and maintain a chart recorder showing casing and tubing pressures during disposal operations.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District II office of the date and time of the installation of disposal equipment and of any MIT so that the same may be inspected

and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's District II office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

The injection authority granted under this order is not transferable except upon Division approval. The Division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The Division may revoke this injection order after notice and hearing if the operator is in violation of Rule 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two (2) years after the effective date of this Order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this Order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.

DAVID R. CATANACH

Director

DRC/prg

cc: Oil Conservation Division – Artesia District Office State Land Office – Oil, Gas and Minerals Division Grande State #1

SWD Conversion Procedure Cherry Canyon API# 30-015-31910 Eddy County, New Mexico

Completion Summary

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN U 6 2016

RECEIVED

### 5/2/2016

- Pulled all tubing and rods from well.
- Set 7" CIBP at 7,900'.

### 5/4/2016

- Shot 4 squeeze holes at 5,600'.
- Dump bailed 35' of cement on top of plug.

### 5/6/2016

- Set 7" cement retainer at 5,560'.
- Recement 7" casing as follows:
  - > Pumped 20 bbls mud flush.
  - Mixed and pumped 250 sacks of Econocem cement @ 12.3 #/gal 1.88 ft³/sx.
  - Mixed and pumped 1,400 sacks of NeoCem cement @ 12.3 #/gal 1.54 ft³/sx

### 5/9/2016

Ran CBL and found cement top @ 2,840'

### 5/10/2016

Shot 4 squeeze holes @ 2,800'

### 5/11/2016

- Set 7" cement retainer @ 2,750'
- Recement 7" casing as follows:
  - > Pumped 12 bbls Superflush 101.
  - > Mixed and pumped 300 sacks of NeoCem cement @ 13.2 #/gal 1.54 ft³/sx
  - Mixed and pumped 75 sacks of Class "C" cement @ 14.8 #/gal 1.35 ft³/sx
- Circulated 22 sacks to surface

### 5/16/2016

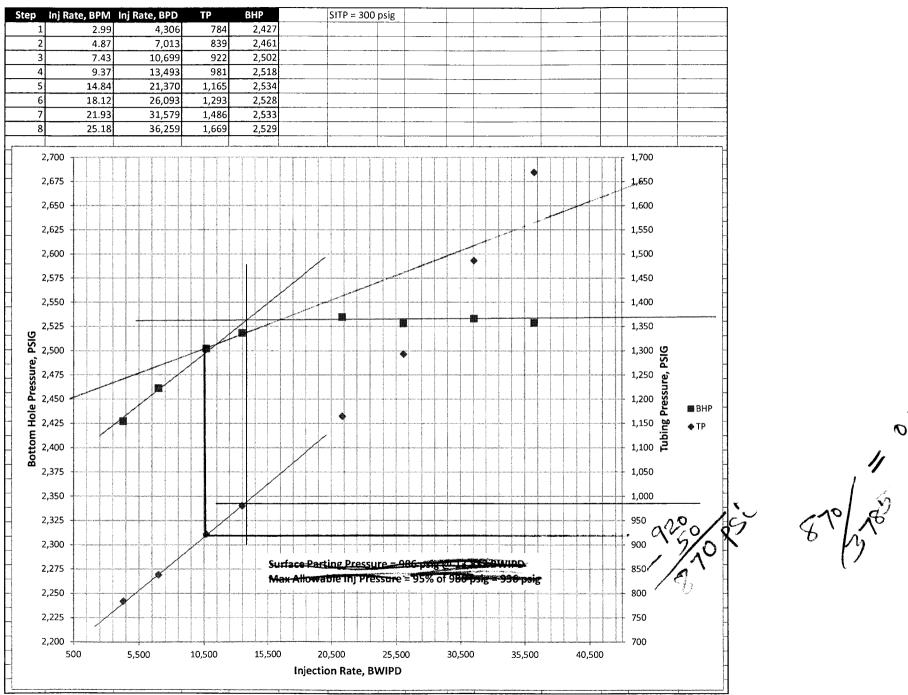
- Set 7" CIBP @ 4,550'.
- Dump bail 41' of cement on top of plug.
- Perforate 3,785' to 4,080'

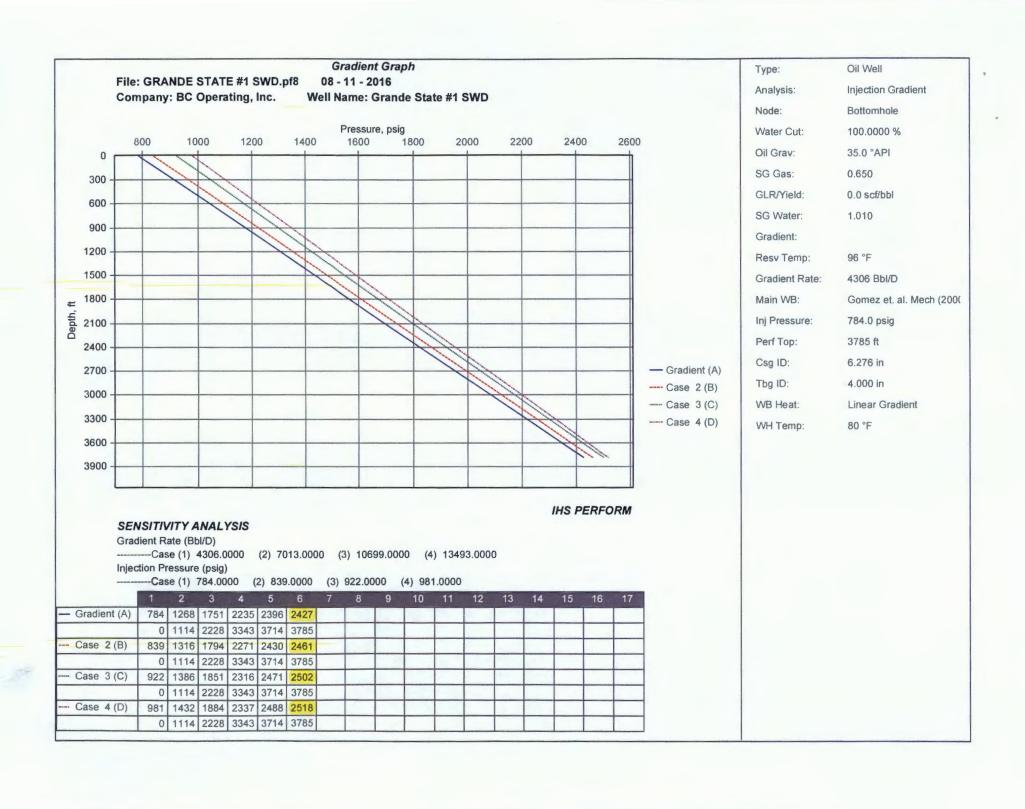
### 5/17/2016

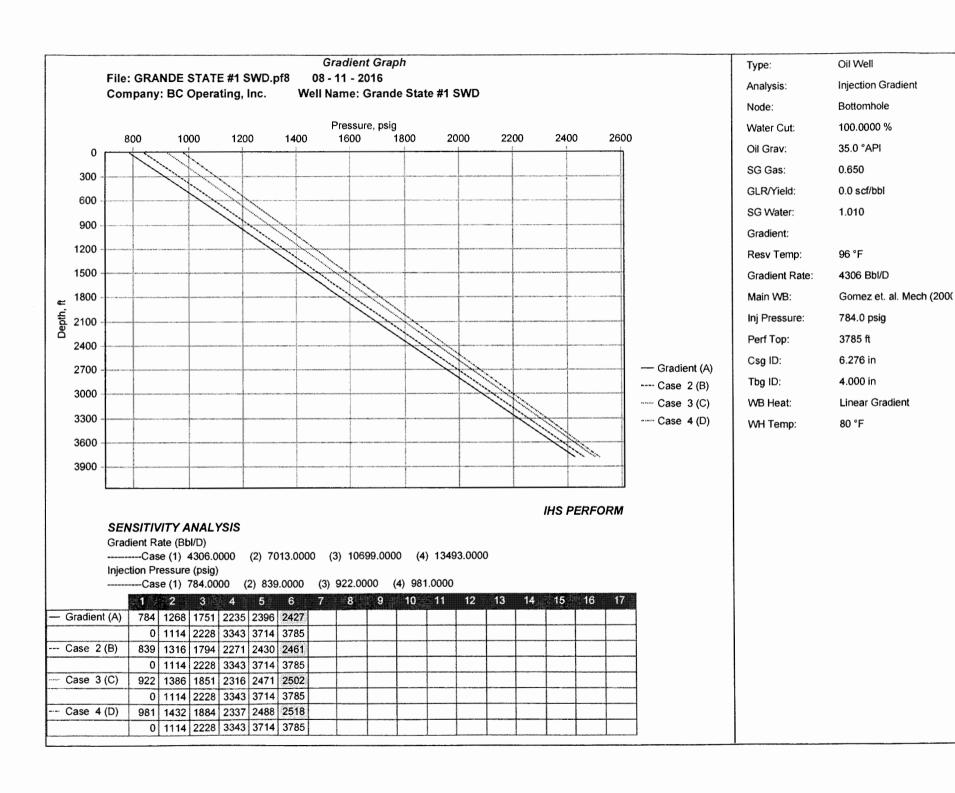
• GIH w/Injection packer on 4 1/2" 11.60# L80 IPC injection string set @ 3,714'.

### 5/18/2016

- Acidized perforations w/ 8,000 gallons 10% NEFE acid.
- Ran MIT test.
- Performed step rate test.







### Gradient Graph File: GRANDE STATE #1 SWD.pf8 08 - 11 - 2016 Company: BC Operating, Inc. Well Name: Grande State #1 SWD Pressure, psig 1400.0 1200.0 1600.0 1800.0 2000.0 2200.0 2400.0 2600.0 0 300 600 900 1200 1500 1800 Depth 2100 2400 --- Gradient (A) 2700 --- Case 2 (B) 3000 ---- Case 3 (C) 3300 ---- Case 4 (D) 3600 3900

**IHS PERFORM** 

### SENSITIVITY ANALYSIS

Gradient Rate (Bbl/D)

-----Case (1) 21370.0000 (2) 26093.0000 (3) 31579.0000 (4) 36259.0000

Injection Pressure (psig)

-----Case (1) 1165.0000 (2) 1293.0000 (3) 1486.0000 (4) 1669.0000

		2	3	4		6	7	8	9	10	11	12	13
Gradient (A)	1165.0	1565.8	1967.4	2369.7	2503.9	2534.4							
	0	1114	2228	3343	3714	3785							
Case 2 (B)	1293.0	1653.2	2014.5	2376.7	2497.6	2527.9							
	0	1114	2228	3343	3714	3785							
Case 3 (C)	1486.0	1789.7	2094.7	2400.7	2503.0	2532.9							
	0	1114	2228	3343	3714	3785							
··-· Case 4 (D)	1669.0	1916.4	2165.3	2415.3	2498.9	2528.5							
	0	1114	2228	3343	3714	3785							

Type:

Oil Well

Analysis:

Injection Gradient

Node:

Bottomhole

Water Cut:

100.0000 %

Oil Grav:

35.0 °API

SG Gas:

0.650

GLR/Yield:

SG Water:

0.0 scf/bbl 1.010

Gradient:

Resv Temp:

96 °F

Gradient Rate:

21370 Bbl/D

Main WB:

Gomez et. al. Mech (2000

Inj Pressure:

1165.0 psig

Perf Top:

3785 ft

Csg ID:

6.276 in

Tbg ID:

4.000 in

WB Heat:

Linear Gradient

WH Temp:

80 °F

From:

Jason Wacker

To:

Sarah Presley; Bruce Madden; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Jones, William V, EMNRD

Subject: Date: RE: Grande State SWD Well No.1 Thursday, August 11, 2016 8:25:32 AM

Attachments:

BC Operating - Grande State 1 Injection Test Raw Data 5-26-2016.xlsx Grande State #1 SWD Step Rate Injection Test 5-26-2016.xlsx Grande State #1 SWD Step Rate Injection Test 5-26-2016.pdf

Gradient Graph1.pdf Gradient Graph2.pdf

Mike,

Please find the data that you requested, attached.

Thanks!

Jason Wacker, P.E. VP of Engineering & Operations

BC Operating, Inc. 4000 N. Big Spring #310 Midland, Texas 79705

PO BOX 50820 Midland, Texas 79710

Office (432) 684-9696 Cell (432) 631-2142

From: Sarah Presley

**Sent:** Tuesday, August 9, 2016 2:32 PM **To:** Jason Wacker; Bruce Madden

Subject: FW: Grande State SWD Well No.1

Do you know who would be able to help me get the items that Mike is needing?

Thanks -Sarah

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]

**Sent:** Tuesday, August 09, 2016 2:30 PM

To: Sarah Presley

Subject: RE: Grande State SWD Well No.1

Can you give an update on the request for the data?

Thanks Mike

,

From: McMillan, Michael, EMNRD

Sent: Wednesday, August 03, 2016 12:45 PM

To: 'Sarah Presley'

Cc: Jones, William V, EMNRD; Goetze, Phillip, EMNRD

**Subject:** Grande State SWD Well No.1

### Sarah:

I am reviewing your IPI application for the Grande State SWD Well No.1. I need the following data that was collected in the field: Bottom hole pressures

Surface pressures

Rates

Times

If possible please provide in an excel spreadsheet.

Thank You

### Michael A. McMillan

Engineering Bureau, Oil Conservation Division 1220 South St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 F. 505.476.3462 Michael.mcmillan@state.nm.us

HELP



SIGN-IN

Operator Data 🗸

### **OCD Permitting**

Home > Wells > Well Details

### 30-015-31910 GRANDE STATE #001 [315840]

### **General Well Information**

Operator:

[160825] BC OPERATING, INC

Status:

Active

Well Type:

Oil

Direction:

Vertical

Work Type:

Plugback

State

Surface Location:

C-32-23S-29E 660 FNL 1980 FWL

Lat/Long: GL Elevation:

2989

32.2667923.-104.0090561 NAD83

Single

Sing/Mult Compl: Potash Waiver:

Lease Type:

False

#### Proposed Formation and/or Notes

ATOKA

### Depths

Proposed:

8185

Total Vertical Depth:

12500

Measured Vertical Depth:

12500

Plugback Measured:

0

#### **Formation Tops**

Formation	Тор	Producing
Base of Salt	2631	
Bell Canyon	2840	
Lamar Limestone	2842	
Cherry Canyon	3972	
Brushy Canyon	4985	
Bone Spring	6562	
3rd Bone Spring Sand	9413	
Wolfcamp	9823	
Salado	9999	
Strawn	11758	
Atoka	11960	

#### **Quick Links**

Wells

- · General Well Information
- <u>History</u>
- Comments
- · Operator
- Pits
- Casing
- · Well Completions
- · Financial Assurance
- · Compliance
- · Complaints, Incidents and Spills
- Orders
- · Production
- · <u>Transporters</u>
- · Points of Disposition

### **Associated Images**

- Well Files
- Well Logs
- Administrative Orders

### **New Searches**

· New Well Search

SIGN-IN HELP

Wells Operator Data 🗸

**Approved Temporary Abandonment:** 

Shut in:

Plug and Abandoned Intent Received:

Well Plugged:

PNR Expiration: Site Release: Last MIT/BHT:

Last Inspection: 05/26/2016

### History

Effective Date	Property	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
01/20/2016	[315840] GRANDE STATE	[160825] BC OPERATING, INC.	Plugback	Oil	Active		
02/08/2008	[33082] GRANDE STATE	[155615] NADEL AND GUSSMAN PERMIAN. LLC	Plugback	Oil	Active		
10/30/2003	[33082] GRANDE STATE	[155615] NADEL AND GUSSMAN PERMIAN, LLC	Re-entry	Gas	Active		
07/24/2001	[28528] COCHITI 32 C STATE	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	New	Gas	Active		

TA Expiration:

### Comments

### Operator

Company:

[160825] BC OPERATING, INC

Address:

Country:

U.S.A.

432-684-9696 Main Phone:

### Central Contact Person

Name: Pam Stevens Phone: 432-684-9696 Title: Regulatory Analyst

432-686-0600

05/26/2016

Cell:

E-Mail Address: pstevens@bcoperating.com Fax:

SIGN-IN HELP

Wells

Operator Data 🗸

### Artesia Contacts

Name: Phone: Jason Wacker

432-684-9696 432-631-2142

Title: Fax:

432-686-0600

Cell: E-Mail Address:

jwacker@blackoakres.com

**Pits** 

Pit On Site: Number 1

Pit Type:

Status:

Guidelines. Closure form approved 1/9/06. Bottom samples will be taken before backfill

Registration Denied:

Closure Approved:

Closure Denied:

**Event Dates** 

Registered:

Approved:

07/19/2004

Open:

Most Recent Rig

Release:

Closed:

### Casing

No Casing Found

### Well Completions

### [79860] LAGUNA SALADO; ATOKA (GAS)

Status:

Dry Hole

Last Produced:

Bottomhole Location: C-32-23S-29E 660 FNL 1980 FWL

Lat/Long:

Acreage:

DHC:

Νo

Consolidation Code:

Test

**Production Method:** 

Oil Volume: Gas Volume: 0.0 bbls 0.0 mcf

Water Volume:

0.0 bbls

Perforations

Date

Top Measured Depth (Where Completion Enters Formation) **Bottom Measured Depth** (End of Lateral)

9999

9999

SIGN-IN HELP

Wells

Operator Data 🗸

Test Allowable Approval:

Test Allowable End

**Production Test:** 

DHC:

TD Reached:

Rig Released:

Deviation Report Received:

No

Logs Received:

No

Connuential Until.

Directional Survey Received:

No

Closure Pit Plat Received:

First Oil Production:

First Gas Production: Completion Report Received:

Ready to Produce:

C-104 Approval:

Plug Back:

Authorization Revoked Start:

Revoked Until:

### **Well Completion History**

Effective Date	Property	Operator	Completion Status	TA Expiration Date
12/15/2003	[33082] GRANDE STATE	[155615] NADEL AND GUSSMAN PERMIAN LLC	Dry Hole	
10/30/2003	[33082] GRANDE STATE	[155615] NADEL AND GUSSMAN PERMIAN, LLC	New, Not Drilled	
05/20/2002	[28528] COCHITI 32 C STATE	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	Zone Permanently Plugged	
07/31/2001	[28528] COCHITI 32 C STATE	[6137] DEVON ENERGY PRODUCTION COMPANY, LP		

### [11520] CEDAR CANYON; BONE SPRING

Bottomhole Location: C-32-23S-29E 660 FNL 1980 FWL

Lat/Long:

Acreage:

40 32-23S-29E Units: C

DHC: Test

No

Consolidation Code:

**Production Method:** 

Pumping

Oil Volume: Gas Volume: 179.0 bbls 306 0 mcf

Water Volume:

452.0 bbls

#### Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)		
	7968	8052		

**Notes**