

DATE IN 09/03/13	SUSPENSE	ENGINEER PG	LOGGED IN 10/29/13	TYPE IPI	PPRG NO. 1330360223
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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 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

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]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

[D] Other: Specify PMX / Angel Lease R-13361

*BC operating
 Angell #3
 30-025-39690*

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] 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

*Requesting
 2750 PSI*

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Jason Wacker</u> Print or Type Name	<u>Jason Wacker</u> Signature	<u>Operations Manager</u> Title	<u>10/7/2013</u> Date
<u>jwacker@bcoperating.com</u> e-mail Address			

*cc
 Pam Stevens
 432-684-9696 / pstevens*

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

BC OPERATING, INC.

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

RECEIVED OGD

September 3, 2013

2013 SEP -9 P 12:40

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

Re: Request IPI - Case No. 14571 - Order No. R-13361 - Angell #3 PMX

B.C. Operating, Inc. requests an injection pressure-limit increase to 2750 psig at surface for the subject well. The Hobbs 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

~~X No Requested~~
Admin Approved:
San Andres Form
960 psi

2. Step-rate test results

3. Wellbore diagram

~~X No Requested~~

Lovington, GR-SA
40520

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

Sincerely,

Jason Wacker
Operations Manager

P. Requested:

$$\frac{2750 \text{ psi}}{4802 \text{ ft}} = 0.57 \text{ psi/ft}$$

Approved

$$\frac{2700 \text{ psi}}{4802 \text{ ft}} = 0.56 \text{ psi/ft}$$

Cc: Elido Gonzales – NMOCD Hobbs District Supervisor

Angell #3 wbs.xls

LEASE & WELL NO. Angell #3
FIELD NAME San Andres (Guadalupean, Permian Age)
LOCATION 1650' FNL & 660 FEL Sec 11, T-17S, R-36E

FORMER NAME _____
COUNTY & STATE Lea County, New Mexico
API NO. 30-025-39690

K.B. ELEV. _____
D.F. ELEV. _____
GROUND LEVEL 3827'

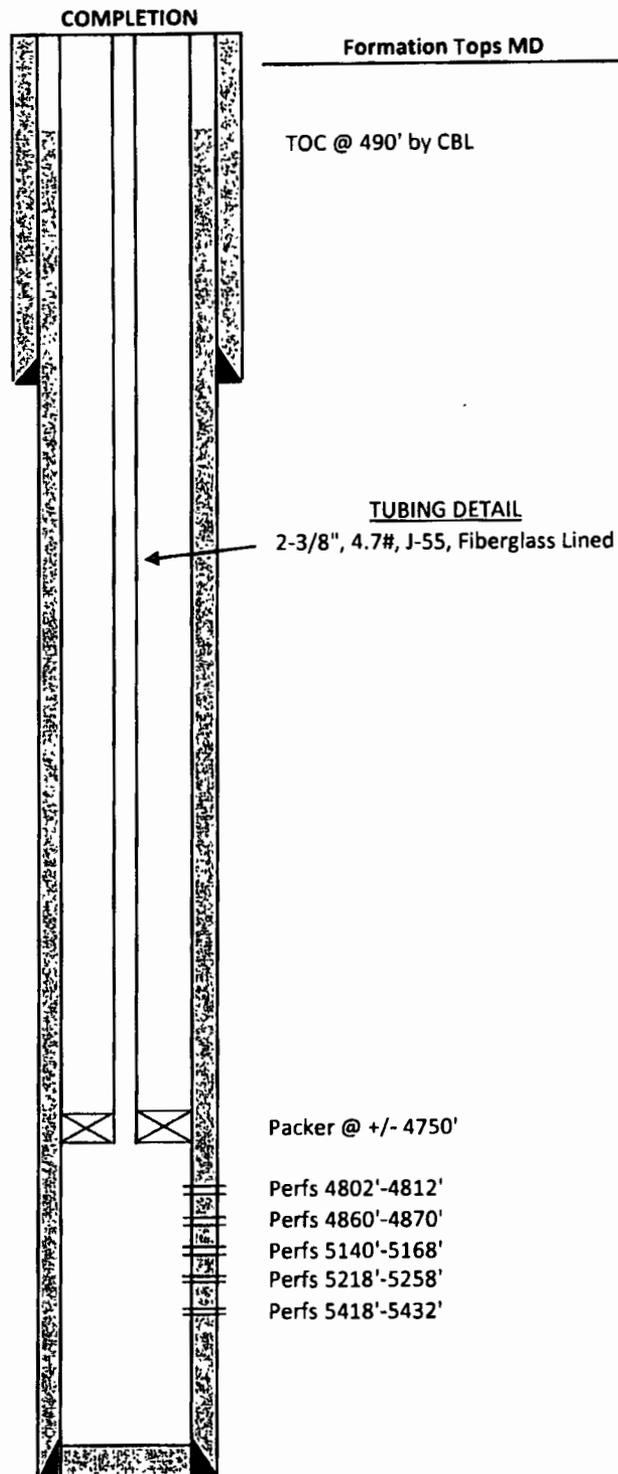
<u>SURFACE CASING</u>			
SIZE	<u>8-5/8"</u>	WEIGHT	<u>32#</u>
GRADE	_____	SX. CMT.	<u>975 sx</u>
		DEPTH	<u>1974'</u>
		TOC @	<u>Surf.</u>

WELL HISTORY

COMPLETION DATE: 5/22/2010

- 05/10 Perf 5418-5432' 2 spf, 28 holes, 60 degree phasing
168 jts 2 7/8" 6.5# SN set @ 5479',
- 03/11 Perf 4802-5218' 2 spf, 176 holes, 60 degree phasing
Acdz w/2,000 gals 20% HCl

<u>PRODUCTION CASING</u>			
SIZE	<u>5-1/2"</u>	WEIGHT	<u>15.5#</u>
GRADE	_____	SX. CMT.	<u>500 sx</u>
		DEPTH	<u>5640'</u>
		TOC @	<u>490'</u>
		PBTD@	<u>5560'</u>
		TD@	<u>5650'</u>

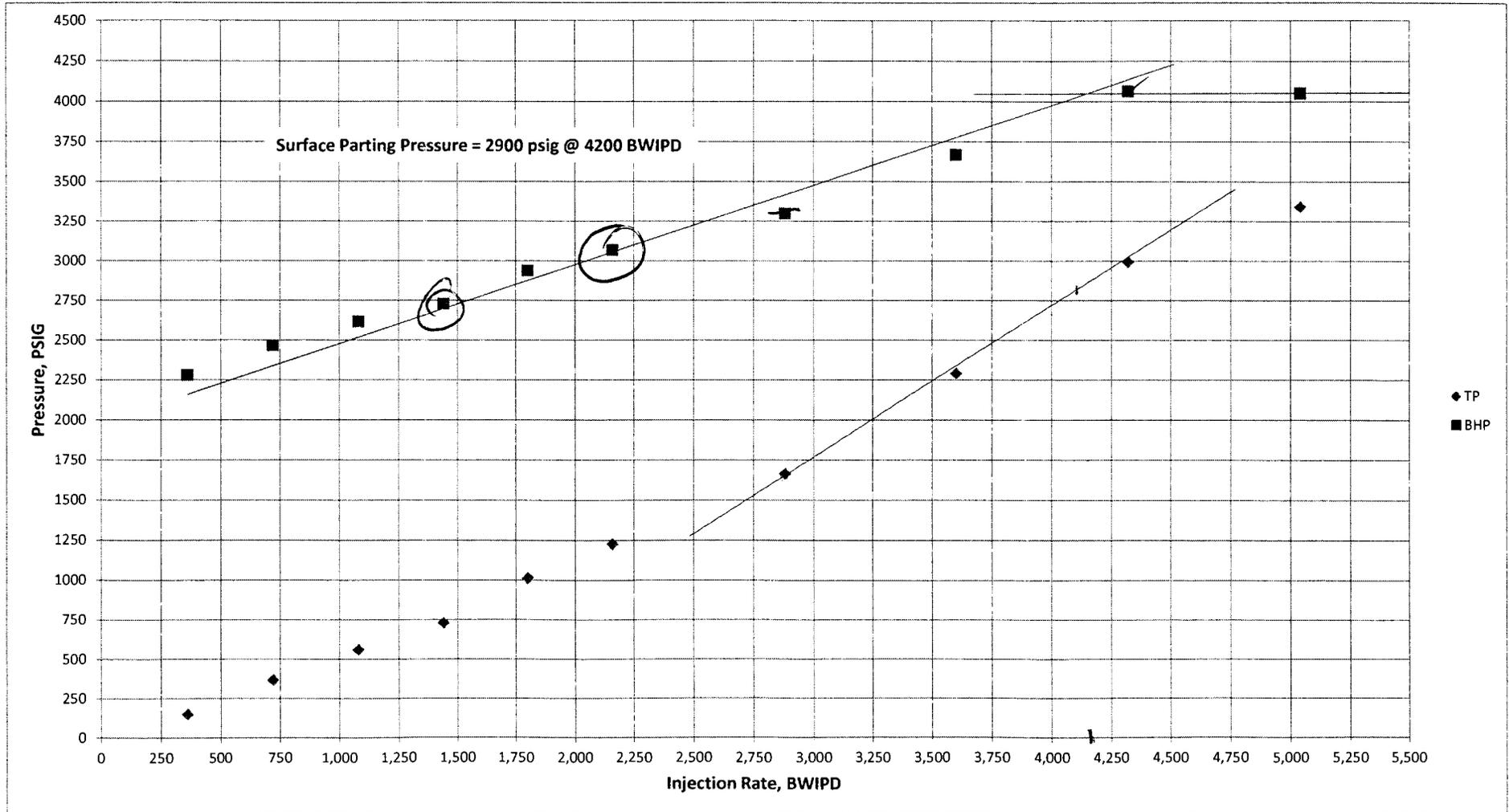


2 7/8"

Angell #3 Step Rate Injection Test 8-2013.xlsx

Step	Rate, BPM	Inj Rate, BPD	TP	Friction	Hydrostatic Head	BHP
1	0.25	360	150	12	2142	2280
2	0.50	720	365	41	2142	2466
3	0.75	1080	560	85	2142	2617
4	1.00	1440	729	142	2142	2729
5	1.25	1800	1012	214	2142	2940
6	1.50	2160	1227	299	2142	3070
7	2.00	2880	1663	506	2142	3299
8	2.50	3600	2290	764	2142	3668
9	3.00	4320	2995	1072	2142	4065
10	3.50	5040	3340	1429	2142	4053

Projected FFP



Step Rate Test Schedule

Well Name Angell # 3

Stage #	Stage Name	Fluid Type	Clean Rate BPM	Fluid Volume GAL	Fluid Volume BBL	Stage Time Mins	Tubing Pressure psig
0	Catch Pressure	Water	1.00	1,000	24	24	
1	Step Rate 1	Water	0.25	53	1	5	150
2	Step Rate 2	Water	0.50	105	3	5	365
3	Step Rate 3	Water	0.75	158	4	5	560
4	Step Rate 4	Water	1.00	210	5	5	729
5	Step Rate 5	Water	1.25	263	6	5	1012
6	Step Rate 6	Water	1.50	315	8	5	1227
7	Step Rate 7	Water	2.00	420	10	5	1663
8	Step Rate 8	Water	2.50	525	13	5	2290
9	Step Rate 9	Water	3.00	630	15	5	2995
10	Step Rate 10	Water	3.50	735	18	5	3340
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.



	Date:	Time:
Truck Called:	8/26/2013	9:00 AM
Arrived at location:	8/26/2013	9:30 AM
Start Job:	8/26/2013	10:00 AM
Finish Job:	8/26/2013	12:00 PM
Leave Location:	8/26/2013	12:30 PM

Job Log

RISING STAR SERVICES LP.		Customer Name:	BC OPERATING		Ticket Number:		
P.O. BOX 61193		Lease Name:	ANGELL			H2013-0638	
MIDLAND, TEXAS 79711		Well #:	3		Supervisor:	JOHN FRANKLIN	
OFFICE # 432-617-0114		Type of Job:	STEP RATE		County:	LEA	
FAX #432-339-0140		Date:	8/26/2013	CUSTOMER REPRESENTATIVE:	VAL SAENZ		
Tubing Size:		Casing size:		Tbg Capacity:			
Tubing weight:		Casing weight:		Top Perf:			On Form:
Tubing bbl/lnft		Casing bbl/lnft:		Bottom Perf:			
Packer depth:		Annulus:		Flush Top Perf:			
End of Tbg:		Total Depth:		Flush Bottom Perf:			
Top Perf:		Open Hole:		Annular Capacity:			
Bottom Perf:		Liner Size:		Maximum:	3500		Psi
Holes in Csg:		Top of Liner					

Max psi: 3340 Min psi: 150 Avg psi: 2560 Max rate: 3.5 Avg rate: 2 ISIP 1532
 Load to recover 5 MIN 762 10 MIN 532 15 MIN 428

Acid Systems

Acid System:		Gallons	
Diverter:		Balls	Coarse Rock Salt

Time	Injection Rate:		Job Pressures		Job Log Remarks:
	Rate:	Bbls In	Tbg psi.	Csg psi	
9:00 AM					CALL OUT FOR TRUCKS
9:05 AM					HAVE PRE-DEPARTURE SAFETY MEETING
9:10 AM					DEPART HOBBS NM YARD FOR LOCATION
9:30 AM					ARRIVE ON LOCATION
9:35 AM					HAVE PRE RIG UP SAFETY MEETING
9:40 AM					SAFELY RIG UP FROM PUMP TO WELL
					HAVE SAFETY MEETING WITH RSS AND PU CREWS
10:13 AM		0	6100		TEST LINES
					START JOB
10:36 AM	0.2		74	11	GET INJECTION AT .2 BBLs A MIN
10:43 AM	0.5	3	242	11	GET INJECTION AT .5 BBS A MIN
10:50 AM	0.7	4	535	10	GET INJECTION RATE @ .7 BBLs A MIN
10:55 AM	1	5	729	10	GET INJECTION RATE @ 1.0 BBLs A MIN
11:02 AM	1.25	6	1007	6	GET INJECTION RATE @ 1.25 BBLs A MIN
11:06 AM	1.5	8	1227	5	GET INJECTION RATE @ 1.5 BBLs A MIN

SERVICE REPRESENTATIVE:	Signature Please	CUSTOMER REPRESENTATIVE:	Signature Please
JOHN FRANKLIN		X	

Step Rate Test Schedule

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Stage #	Stage Name	Fluid Type	Clean Rate BPM	Fluid Volume GAL	Fluid Volume BBL	Stage Time Mins	Tubing Pressure psig
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 Arrived at location: 8/26/2013 9:30 AM
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 Leave Location: 8/26/2013 12:30 PM

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RISING STAR SERVICES LP.		Customer Name:	BC OPERATING		Ticket Number:	H2013-0638	
P.O. BOX 61193		Lease Name:	ANGELL				
MIDLAND, TEXAS 79711		Well #:	3		Supervisor:	JOHN FRANKLIN	
OFFICE # 432-617-0114		Type of Job:	STEP RATE		County:	LEA	
FAX #432-339-0140		Date:	8/26/2013	CUSTOMER REPRESENTATIVE:	VAL SAENZ		
Tubing Size:		Casing size:		Tbg Capacity:			
Tubing weight:		Casing weight:		Top Perf:			On Form:
Tubing bbl/inf		Casing bbl/inf:		Bottom Perf:			
Packer depth:		Annulus:		Flush Top Perf:			
End of Tbg:		Total Depth:		Flush Bottom Perf:			
Top Perf:		Open Hole:		Annular Capacity:			
Bottom Perf:		Liner Size:		Maximum:	3500		Psi
Holes in Csg:		Top of Liner					

Max psi: 3340 Min psi: 150 Avg psi: 2560 Max rate: 3.5 Avg rate: 2 ISIP 1532
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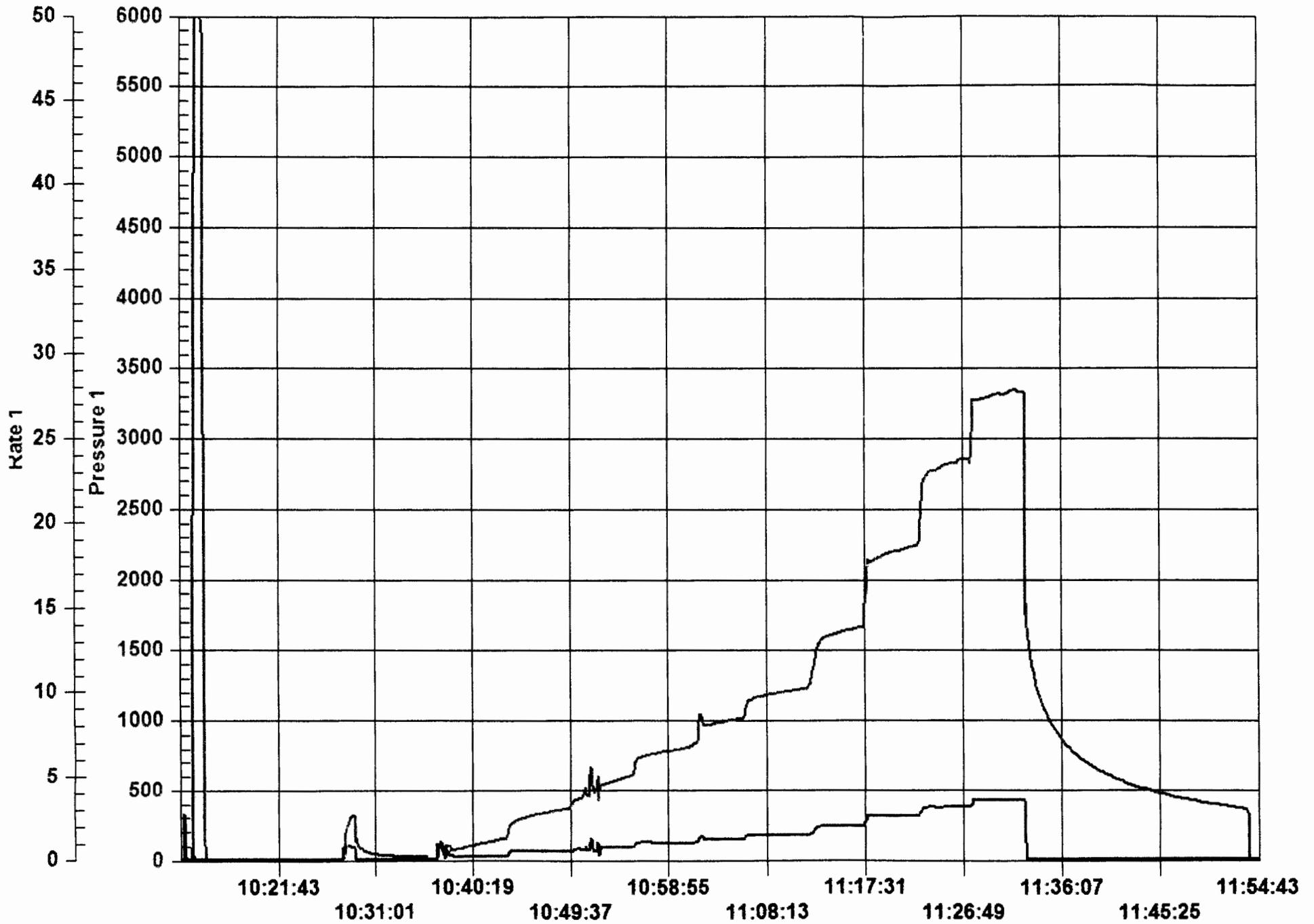
Acid Systems

Acid System:		Gallons	
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SERVICE REPRESENTATIVE: Signature Please JOHN FRANKLIN
 CUSTOMER REPRESENTATIVE: Signature Please X

STEPRATE





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:

H2013-0638

Date of Job: 8/26/2013 District: Hobbs
 Customer: BC OPERATING
 Address: PO BOX 50820
 City: MIDLAND State: TEXAS
 Zip Code: 79701

New Well: Well #: 3 Lease: ANGELL
 County/Parrish: LEA State: NM
 Field:
 API#: Mileage: 50

Contact Person/Company man: VAL SAENZ
 Contact Number:
 Rig Contractor: NO RIG
 Rig Number:
 Head & Manifold

Salesman: JAMIE PACHECO
 Service Supervisor: JOHN FRANKLIN
 Tractor: PK1098
 Trailer: PK 1055
 T1113 AP5001
 PK1119
 Equipment Operators:
 SCOTTY CHAVEZ
 JOHN FRANKLIN
 ANDREW ARANDA
 CHRIS ZACARIS
 KELLY CROW
 JOSE RAMERIZ

Gals. Acid System

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 \$4,175.0000
Discount 15% \$626.2500
Job Total \$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 Indemnity and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: X

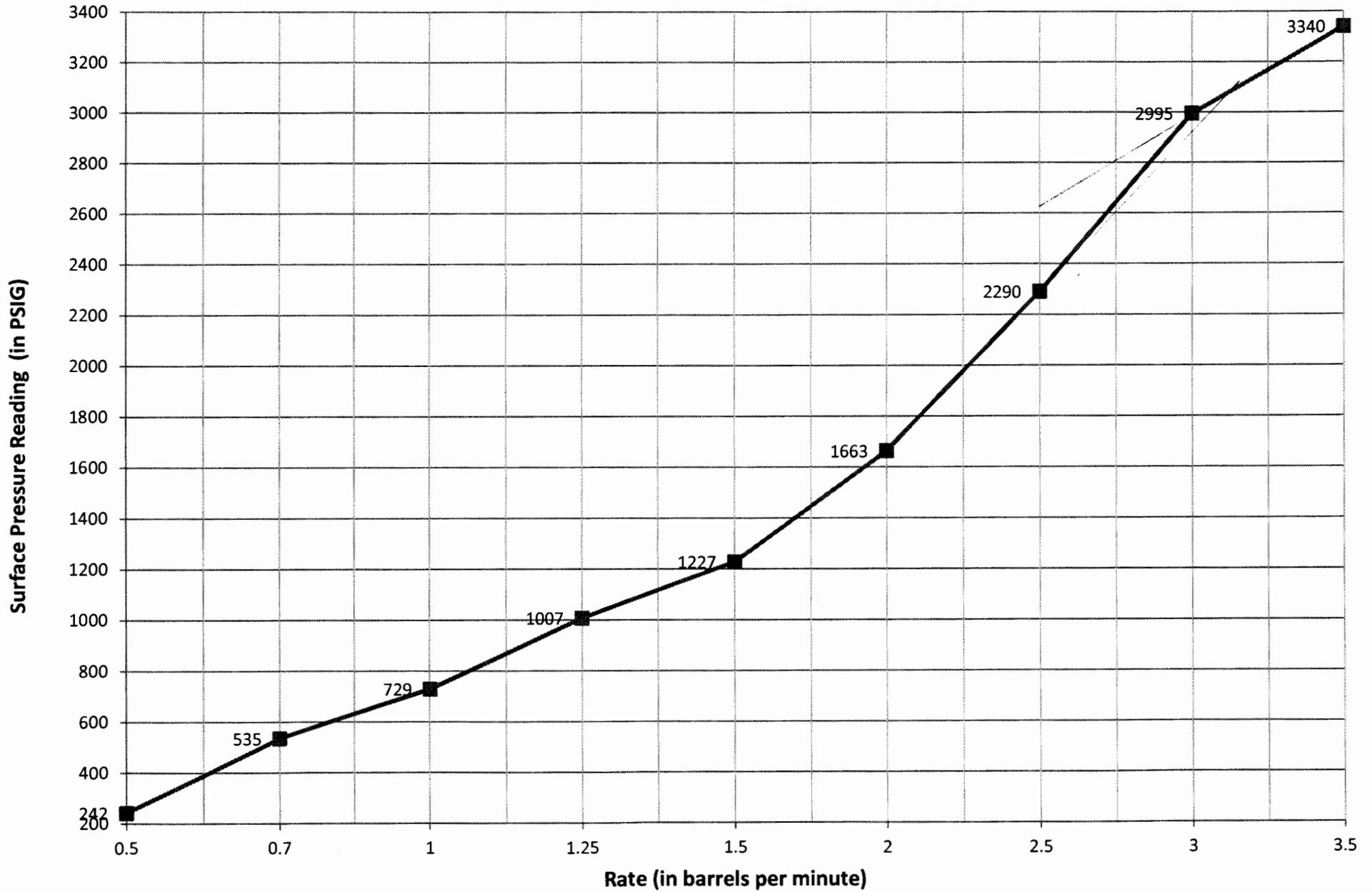
Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt
 Over 30 Days, Discount Voids

Supervisor: **JOHN FRANKLIN**

R-13361 / Angell #3 - IPI Application - SRT 2013 Results



**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING THE:**

**APPLICATION OF BC OPERATING, INC. FOR AUTHORIZATION TO
INJECT WATER FOR LEASE PRESSURE MAINTENANCE OPERATIONS
AND DESIGNATION OF A PROJECT AREA, LEA COUNTY, NEW MEXICO**

**CASE NO. 14571
ORDER NO. R-13361**

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on December 2, 2010, at Santa Fe, New Mexico before Examiner William V. Jones.

NOW, on this 11th day of March, 2011, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

(1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

(2) BC Operating, Inc. ("BC Operating" or "applicant") seeks approval to implement pressure maintenance operations by injection of produced water into the San Andres formation within the Angell Lease containing 80 acres, more or less, of the following lands within Lea County, New Mexico:

Township 17 South, Range 36 East, NMPM

Section 11: E/2 NE/4

(3) The project would initially consist of one injection well and one producing well as follows:

30-025-39690	Angell Well No. 3	<u>Subject Well</u>	Unit H
30-025-37902	Angell Well No. 1	Producer	Unit A

(4) The vertical extent of the proposed Pressure Maintenance Project underlying the Angell Lease Area is the productive interval within the San Andres formation. The San Andres formation top is at approximately 4740 feet and it extends to the Glorieta formation at approximately 6150 feet. Injection is proposed into the Angell Well No. 3 from 4802 to 5432 feet.

(5) BC Operating presented exhibits and testimony from a professional engineer indicating the following:

(a) Vanguard Permian, LLC was not formally notified of this application, but is a business partner in the subject well and an operator of lands directly to the east.

(b) The offsetting lease operated by BC Operating is owned identically to the subject lease, the same owners in the same percentages.

(c) The Project Area should include the 80 acres consisting of the E/2 NE/4 of Section 11. These lands are under a common lease held by BC Operating.

(d) The San Andres formation in this area dips gently to the east. The San Andres is being waterflooded successfully in this area and has favorable reservoir and fluid characteristics for waterflooding. Re-injecting water into this reservoir downdip from the producing well is expected to improve oil recovery. Another benefit will be reduced water hauling costs from this lease, extending the life of the production well.

(e) The operator intends to only use the proposed injection well for re-injection of produced water. The source of this produced water is expected to be from the Angell B Well No. 2 and from the Angell Well No. 1.

(f) The fresh water aquifer in this area is the Ogallala reservoir and extends from 50 feet to 200 feet below surface.

(g) All wells within the 1/2 mile area of review are adequately cemented in order to isolate the injection to the intended injection interval. There are no faults or conduits which could transport injected waters out of the injection interval. Any fresh water sands will be protected from this injection operation, and fresh water will not be endangered.

(6) This area is on the southwestern edge of the productive San Andres reservoir. Chevron Midcontinent, L.P. operates the Lovington San Andres Unit waterflood located directly northeast in offsetting Section 1. BC Operating operates a San Andres/Paddock downhole commingled producer in Unit B of Section 11 called the Angell B Well No. 2. Vanguard Permian, LLC controls offsetting acreage within Section 12 containing an unsuccessful San Andres/Paddock well located in Unit E of Section 12. The Angell Federal Well No. 3 or "subject well" was drilled in 2010 as an unsuccessful

San Andres well.

(7) The subject well appears to be adequately cased and cemented, in order to confine injection to the proposed interval. Within the Area of Review, all five active wells and the one plugged well appear to be adequately cased, cemented, or plugged to prevent movement of injection fluids out of zone and to protect any underground sources of drinking water.

(8) The proposed Angell Lease Pressure Maintenance Project is wholly contained within the Lovington-Grayburg-San Andres Pool (Pool Code 40580). Wells completed within this pool are governed by statewide rules, including those specific to oil well spacing and setbacks.

(9) BC Operating, Inc. (OGRID 160825) is the operator of record of the wells located on this acreage. BC Operating is in compliance with Division Rule 5.9 and therefore eligible for approval of disposal and injection permits.

(10) The applicant has notified affected parties of the intent to inject into the proposed injection well and has received no objections. No other parties appeared in this case or otherwise opposed this application.

(11) The proposed Pressure Maintenance Project within this lease is feasible and should result in the recovery of additional oil and gas that would not otherwise be recovered.

(12) The estimated additional costs of the proposed Pressure Maintenance operations will not exceed the estimated value of the additional oil and gas recovered plus a reasonable profit.

(13) The Project Area should include the 80 acres consisting of the E/2 NE/4 of Section 11. The proposed project will prevent waste, protect correlative rights, and should be approved and called the Angell Lease Pressure Maintenance Project.

(14) BC Operating should be approved to inject into the San Andres formation within the Angell Federal Well No. 3 from depths of 4802 to 5432 feet. Provisions should be made for the operator of the Angell Lease to apply administratively for additional or alternative injection wells as needed within this lease.

IT IS THEREFORE ORDERED THAT:

(1) BC Operating, Inc. ("BC Operating") is hereby authorized to implement pressure maintenance operations within the Angell Lease by injection of produced water into the productive interval of the San Andres formation.

(2) The Angell Lease acreage, all of which is approved as the "Project Area", consists of 80 acres, more or less, defined as follows:

Township 17 South, Range 36 East, NMPM, Lea County, New Mexico

Section 11: E/2 NE/4

(3) BC Operating is approved to utilize the Angell Federal Well No. 3 (API No. 30-025-39690), located 1650 feet from the North line and 660 feet from the East line, Unit H, of Section 11, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico, for injection of produced water (UIC Class II only) into the San Andres formation from 4802 feet to 5432 feet for purposes of pressure maintenance.

(4) The Division Director may administratively authorize an alternative injection well or additional injection wells within this lease as provided in 19.15.26.8F. NMAC. ✓

(5) The Angell Lease Pressure Maintenance Project is hereby approved and shall initially consist of one injection well and one producing well, all contained in the 80-acre lease.

(6) The operator of the Angell Lease shall be BC Operating, Inc. (OGRID 160825).

(7) BC Operating shall take all steps necessary to ensure that the injected water enters only the permitted injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(8) Injection into any approved injection well or wells within this project shall be accomplished through plastic-lined tubing installed in a packer located within 100 feet of the uppermost injection perforation. The casing-tubing annulus shall be filled with an inert fluid, and a gauge or approved leak-detection device shall be attached to the annulus in order to detect any leakage in the casing, tubing, or packer.

(9) The injection well or pressurization system shall be equipped with a pressure control device or acceptable substitute that will limit the maximum surface injection pressure to 960 psi.

(10) The Division Director may administratively authorize a pressure limitation in excess of the above, upon a showing by the operator, supported by an approved Step Rate Test, that such higher pressure will not result in the fracturing of the injection formation or confining strata or damage to the reservoir.

(11) The operator shall provide notice, 72 hours in advance, to the supervisor of the Division's district office of the date and time of the installation of injection equipment and of any mechanical integrity test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules

26.13 and 7.24.

(12) Without limitation on the duties of the operator as provided in Division Rules 30 and 29, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from or around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

(13) 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.

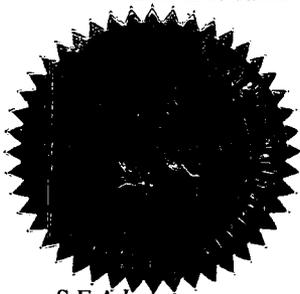
(14) The Division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

(15) In accordance with Division Rule No 26.12.C., the disposal authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good cause. One year after injection into the Project Area has ceased or not been reported, the authority to inject will terminate *ipso facto*.

(16) 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.

(17) 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 (or without prior notice and hearing in case of emergency), terminate the injection authority granted herein.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



SEAL

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

DANIEL SANCHEZ
Acting Director

NORTH

BC OPERATING
ANGELL

1

30025379020000
ELEV_KB : 3,831
TD : 6,450

<990FT>

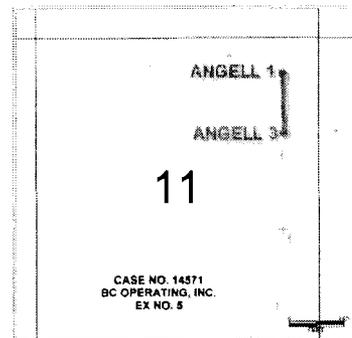
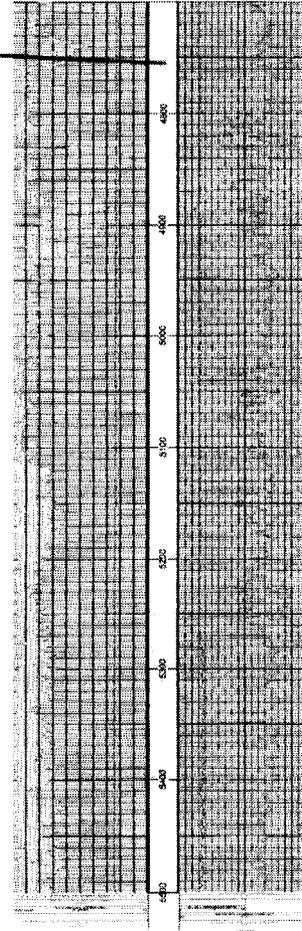
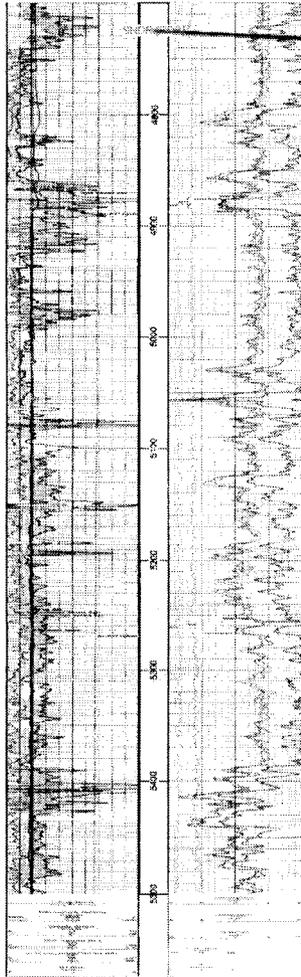
BC OPERATING
ANGELL

3

30025396900000
ELEV_KB : 3,845
TD : 5,650

SOUTH

San Andres



BLACK OAK RESOURCES

LEA COUNTY
Angell #1 to Angell #3
17S 36E Sec 11
Structural Cross Section
Horizontal Scale = 1.0
Vertical Scale = 80.0
Vertical Exaggeration = 0.0x

CORES	GRABBS	DISMANT	IP	CASRES

PRINTS

CASE NO. 14371
BC OPERATING, INC.
EX NO. 5

November 10, 2010 2:11 PM