

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

**APPLICATION OF KEY ENERGY SERVICES, LLC
FOR APPROVAL OF A SALT WATER DISPOSAL WELL,
EDDY COUNTY, NEW MEXICO
CASE NO. 15322**

EXHIBITS FOR

BC  PERATING, INC.

Crown Oil Partners V, LP

Crump Energy Partners II, LLC

A Survey of Resistivities of Water From Subsurface Formations in West Texas and Southeastern New Mexico

September 1982

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in cooperation with:**

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Permian Basin Well Logging Society of SPWLA

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**BEFORE THE OIL CONVERSATION
DIVISION
Santa Fe, New Mexico
Exhibit No. 11
Submitted by: BC OPERATING, INC.
Hearing Date: August 20, 2015**

A Survey of Resistivities of Water From Subsurface Formations in West Texas and Southeastern New Mexico

Part 2

Published RW's @ 75°F

NOTES:

- 1 "0" in "Depth" column indicates "unknown"
- 2 All resistivities corrected to 75°F.
- 3 Number in "Company" column refers to API number. Sample data obtained from DOE files on General Electric Timeshare
- 4 Formation listed in order of normal increasing geological age
- 5 Decimal numbers in "Location" column define latitude and longitude

SOURCE ABBREVIATIONS USED IN TABLES:

BAIL = bailer
BTRY = battery
DST = drillstem test
FLLN = flowline
GB = gun barrel
HTR = heater
INJ = injection water
PIT = pit
PROD = produced
SEP = separator
SWAB = swab
TANK = tank
TRTR = treater
WHD = wellhead

FORMATION--	COUNTY----	FIELD----	COMPANY-----	LEASE NAME-----	WELL #	LOCATION-----	DEPTH- FEET	WATER RES.	SRCE
DELAWARE									
CULBERSON									
GERALDINE FORD									
CONOCO			J.C. RUSSELL-4			SEC 4, BLK 58, T-2, T&P	0.	0.145	TANK
GERLADINE			J.C. RUSSELL			31.945, 104.03	0.	0.146	
EDDY									
UNKNOWN									
#3001510867					16	18-21S-29E	6350.	0.170	DST
#3001520092					11	07-20S-31E	5050.	0.282	DST
#3001520179			MILLER RANCH			18-22S-25E	3448.	0.858	
#3001520179			MILLER RANCH			18-22S-25E	3552.	0.257	
#3001520179			MILLER RANCH			18-22S-25E	3624.	0.160	
#3001520204					1	10-22S-27E	4434.	0.047	
CORRAL CANYON									
#3001510048			CONTINENTAL			20-25S-30E	3664.	0.040	DST
#3001510048			CONTINENTAL			20-25S-30E	3692.	0.059	FLLN
#3001510181			SUPERIOR-STATE			08-25S-30E	3724.	0.051	SWAB
MARCON CLIFFS									
#3001505834			BIG EDDY U			30-20S-31E	6839.	0.370	DST
SHUGART									
#3001505617			GREENWOOD			27-18S-31E	4960.	0.043	SWAB
#3001510288			FED-KEOHANE			28-18S-31E	5074.	0.042	
LEA									
UNKNOWN									
#3002508253			MARATHON-F			08-26S-32E	4460.	0.049	
#3002508686			ELLIOTT-FED			22-25S-35E	9714.	0.043	DST
#3002523267					1		6168.	0.050	DST
EL MAR									
#3002508310			BRADLEY-FED			35-26S-32E	4500.	0.044	SEP
LEA									
#3002502427			LEA NIT		1	12-20S-34E	7855.	0.053	DST
#3002520756			CUSTER MOU			09-24S-35E	5310.	0.044	DST
LUSK									
			N.M. "CR" ST		3		0.	0.051	
PADUCA									
			COTTON DRAW		55		0.	0.041	
#3002508176			COTTON DRAW			10-25S-32E	4728.	0.048	SWAB
#3002508182			COTTON DRAW			15-25S-32E	4620.	0.038	DST
PADUCA.N									
			COTTON DRAW		69		0.	0.052	
			COTTON DRAW		70		0.	0.052	
SALT LAKE.S									
#3002500962			LITTLE EDDY			36-20S-32E	5665.	0.580	DST
WILDCAT									
#3002520378			STATE LEA			17-18S-35E	5690.	0.075	DST
#3002520378			STATE LEA			17-18S-35E	6000.	0.246	DST
LOVING									
UNKNOWN									
CHAPMAN			JOHNSON		1-L	SEC 14, BLK 57 T1, T&P	2998.	0.081	BAIL
DELFEIN			LUDEMAN		1	SEC 21, BLK C-24, PSL	5270.	0.049	DST
HILL & MEEKER			GATES		1	SEC 12, BLK 53 T2, T&P	4944.	0.027	DST