

**OCD CATHODIC PROTECTION DEEPWELL GROUND BED REPORT
DATA SHEET: NORTHWESTERN NEW MEXICO**

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

OPERATOR: BR
FARMINGTON, NM 87401
PHONE: 599-3400

LOCATION INFORMATION

API NUMBER: **3004524128**

WELL NAME OR PIPELINE SERVED: **MANGUM 4E** LEGAL LOCATION: **28 029N 011W** INSTALLATION DATE: **11/19/2013**

PPCO. RECTIFIER NO.: **6556W** ADDITIONAL WELLS: **MANGUM #6 & #9**

TYPE OF LEASE: LEASE NUMBER: **NOT PROVIDED**

GROUND BED INFORMATION

TOTAL DEPTH: **300'** CASING DIAMETER: **8"** TYPE OF CASING: **PVC** CASING DEPTH: **40'** CASING CEMENTED ■

TOP ANODE DEPTH: **170'** BOTTOM ANODE DEPTH: **278'**

ANODE DEPTHS: **170, 182, 194, 206, 218, 230, 242, 254, 266, 278**

AMOUNT OF COKE: **50 BAGS**

WATER INFORMATION

WATER DEPTH (1): **60'** WATER DEPTH (2): **—**

GAS DEPTH: **—** CEMENT PLUGS: **—**

RCVD DEC 31 '13
OIL CONS. DIV.
DIST. 3

OTHER INFORMATION

TOP VENT PERFORATIONS: **160'** VENT PIPE DEPTH: **300'**

REMARKS: **CKE DEPTH - 150'**

IF ANY OF THE ABOVE INFORMATION IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

*- LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE; P-FEE
IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

Wednesday, Nove

ca

COMPANY: ConocoPhillips
 COMPANY REP.: JOHN TAFOYA
 LOCATION: MANGUM 4 E
 JOB NO.: 340140468
 FOREMAN: RON LUNA
 DRILLER: DARREL FERRIER

DATE: 11/19/2013
 DIA. HOLE: 7 7/8
 DEPTH: 300'
 COKE TYPE: SW
 # OF COKE: 50 BAGS
 # OF BENTONITE: 0

CASING: SCH40 PVC
 DIAMETER: 8"
 CASING DEPTH: 40'
 # OF ANODES: 10
 ANODE TYPE: 2284Z
 ANODE LEAD: HWMPE#8

corrpro

RECTIFIER MFG: _____
 MODEL: _____
 SERIAL #: _____

V-DC: _____ A-DC: _____

WELL LOG										ANODE PLACEMENT			
DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	ANODE NO.	ANODE DEPTH	AMPS W/O COKE	AMPS W/ COKE
0	BOULDERS - MUD DRILL			CASING	250	BLACK SHALE		5.80		1	278	3.40	6.90
5	BOULDERS - MUD DRILL			CASING	255	BLACK SHALE		4.40	#3 - 254'	2	266	3.80	8.20
10	BOULDERS - MUD DRILL			CASING	260	BLACK SHALE		2.60		3	254	5.00	9.40
15	BOULDERS - MUD DRILL			CASING	265	BLACK SHALE		3.90	#2 - 266'	4	242	7.60	12.60
20	BOULDERS - MUD DRILL			CASING	270	BLACK SHALE		3.70		5	230	6.30	12.60
25	BOULDERS - MUD DRILL			CASING	275	GREY SANDSTONE		3.30		6	218	6.90	12.00
30	BOULDERS - MUD DRILL			CASING	280	GREY SANDSTONE		3.90	#1 - 278'	7	206	6.20	11.20
35	BOULDERS - MUD DRILL			CASING	285	GREY SANDSTONE		4.20		8	194	6.60	11.40
40	BOULDERS - MUD DRILL			CASING	290	GREY SANDSTONE		4.00		9	182	5.70	10.90
45	GREY SHALE				295	GREY SANDSTONE				10	170	5.40	10.10
50	GREY SHALE				300	GREY SANDSTONE				11			
55	GREY SHALE				305					12			
60	GREY SHALE				310					13			
65	GREY SHALE				315					14			
70	GREY SHALE				320					15			
75	GREY SHALE				325				TD: 295' Vent Pipe Depth: 300'	16			
80	GREY SHALE		3.80		330					17			
85	GREY SANDSTONE		3.90		335					18			
90	GREY SANDSTONE		3.60		340					19			
95	GREY SANDSTONE		3.50		345					20			
100	GREY SANDSTONE		3.40		350					21			
105	GREY SANDSTONE		3.80		355					22			
110	GREY SANDSTONE		3.10		360					23			
115	GREY SANDSTONE		3.70		365					24			
120	GREY SANDSTONE		4.10		370					25			
125	GREY SANDSTONE		3.60		375					GROUND BED RESISTANCE TOTAL VOLTS: <u>13.20</u> TOTAL AMPS: <u>32.60</u> <u>0.40</u> OHMS			
130	GREY SANDSTONE		3.50		380								
135	GREY SANDSTONE		3.70		385								
140	GREY SANDSTONE		3.20		390								
145	GREY SANDSTONE		2.90		395								
150	GREY SANDSTONE		2.40		400								
155	GREY SANDSTONE		4.60		405								
160	GREY SANDSTONE		6.60		410								
165	GREY SANDSTONE		6.30		415								
170	GREY SANDSTONE		5.70	#10 - 170'	420								
175	GREY SANDSTONE		5.30		425					SITE ELEVATION: <u>N/A</u> WATER LEVEL #1: <u>60'</u> WATER LEVEL #2: <u>N/A</u> COKE LEVEL: <u>150'</u> EXTRA CASING USED: <u>20'</u> ADDITIONAL COMMENTS: 0-40' - CASING - BOULDER DRILL MUD DRILL 40-300' - INJECT WATER			
180	GREY SANDSTONE		5.60	#9 - 182'	430								
185	GREY SHALE		5.50		435								
190	GREY SHALE		6.70		440								
195	GREY SHALE		6.10	#8 - 194'	445								
200	GREY SHALE		6.50		450								
205	GREY SHALE		6.70	#7 - 206'	455								
210	GREY SHALE		5.20		460								
215	GREY SHALE		5.70	#6 - 218'	465								
220	GREEN SANDSTONE		7.10		470								
225	GREEN SANDSTONE		5.50		475								
230	GREEN SANDSTONE		7.40	#5 - 230'	480								
235	GREEN SANDSTONE		8.60		485								
240	GREEN SANDSTONE		8.00	#4 - 242'	490								
245	GREEN SANDSTONE		6.50		495								