

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

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

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

LOCATION INFORMATION

API NUMBER: **3004535070**

WELL NAME OR PIPELINE SERVED: **HARDIE 2N** LEGAL LOCATION: **28 029N 008W** INSTALLATION DATE: **11/5/2013**

PPCO. RECTIFIER NO.: **2114W** ADDITIONAL WELLS: **B #212**

TYPE OF LEASE: LEASE NUMBER: **SF-078049-A**

GROUND BED INFORMATION

TOTAL DEPTH: **300'** CASING DIAMETER: **8"** TYPE OF CASING: **PVC** CASING DEPTH: **20'** CASING CEMENTED ☒

TOP ANODE DEPTH: **183'** BOTTOM ANODE DEPTH: **280'**

ANODE DEPTHS: **183, 195, 207, 220, 230, 240, 250, 260, 270, 280**

AMOUNT OF COKE:

WATER INFORMATION

WATER DEPTH (1): **N/A** WATER DEPTH (2): **—**

GAS DEPTH: **—** CEMENT PLUGS: **—**

RCVD NOV 20 '13
OIL CONS. DIV.
DIST. 3

OTHER INFORMATION

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

REMARKS:

COKE 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, Nov

ca

COMPANY: ConocoPhillips
 COMPANY REP.: JOHN TAFOYA
 LOCATION: HARDIE 2 N
 JOB NO.: 340140545
 FOREMAN: RON LUNA
 DRILLER: DARREL FERRIER

DATE: 11/5/2013
 DIA. HOLE: 7 7/8
 DEPTH: 300'
 COKE TYPE: SW
 # OF COKE: 50 BAGS
 # OF BENTONITE: 0

CASING: SCH40 PVC
 DIAMETER: 8"
 CASING DEPTH: 20'
 # 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	TAN SANDSTONE			CASING	250	GREY SANDY SHALE		1.10	#4 - 250'	1	280	1.40	3.30
5	TAN SANDSTONE			CASING	255	GREY SANDY SHALE		0.70		2	270	1.80	6.20
10	TAN SANDSTONE			CASING	260	GREY SANDY SHALE		1.20	#3 - 260'	3	260	1.20	5.70
15	TAN SANDSTONE			CASING	265	GREY SANDY SHALE		1.70		4	250	1.00	5.40
20	TAN SANDSTONE			CASING	270	GREY SANDY SHALE		1.70	#2 - 270'	5	240	1.50	6.30
25	TAN SANDSTONE				275	GREY SANDY SHALE		2.00		6	230	2.10	7.30
30	TAN SANDSTONE				280	GREY SANDY SHALE		2.00	#1 - 280'	7	220	1.40	6.10
35	TAN SANDSTONE				285	GREY SANDY SHALE		1.10		8	207	0.30	3.50
40	TAN SANDSTONE				290	GREY SANDY SHALE				9	195	0.20	2.80
45	TAN SANDSTONE				295	GREY SANDY SHALE				10	183	0.30	2.60
50	TAN SANDSTONE				300	GREY SANDY SHALE				11			
55	TAN SANDSTONE				305					12			
60	TAN SANDSTONE				310					13			
65	GREEN SHALE				315					14			
70	GREEN SHALE				320					15			
75	GREEN SHALE				325					16			
80	GREEN SHALE		1.80		330					17			
85	GREEN SHALE		1.80		335					18			
90	GREEN SHALE		1.60		340					19			
95	GREEN SHALE		1.40		345					20			
100	GREEN SHALE		1.40		350					21			
105	GREEN SHALE		1.10		355					22			
110	GREEN SHALE		0.50		360					23			
115	TAN SANDSTONE		0.20		365					24			
120	TAN SANDSTONE		0.30		370					25			
125	TAN SANDSTONE		0.30		375								
130	TAN SANDSTONE		0.20		380								
135	TAN SANDSTONE		0.20		385								
140	TAN SANDSTONE		0.20		390								
145	TAN SANDSTONE		0.60		395								
150	TAN SANDSTONE		1.30		400								
155	GREEN SHALE		1.20		405								
160	GREEN SHALE		0.90		410								
165	TAN SANDSTONE		0.20		415								
170	TAN SANDSTONE		0.30		420								
175	TAN SANDSTONE		0.30		425								
180	TAN SANDSTONE		0.20		430								
185	TAN SANDSTONE		0.40	#10 - 183'	435								
190	TAN SANDSTONE		0.40		440								
195	GREY SANDSTONE		0.20	#9 - 195'	445								
200	GREY SANDSTONE		0.30		450								
205	GREY SANDSTONE		0.30		455								
210	GREY SANDSTONE		0.40	#8 - 207'	460								
215	GREY SANDSTONE		0.80		465								
220	GREY SANDSTONE		1.50	#7 - 220'	470								
225	GREY SHALE		1.20		475								
230	GREY SHALE		1.80	#6 - 230'	480								
235	GREY SHALE		1.80		485								
240	GREY SHALE		1.40	#5 - 240'	490								
245	GREY SHALE		1.40		495								

TD: 292'
 Vent Pipe Depth: 300'

GROUND BED RESISTANCE

TOTAL VOLTS: 13.80
 TOTAL AMPS: 14.40

0.96 OHMS

SITE ELEVATION: 6399'
 WATER LEVEL #1: N/A
 WATER LEVEL #2: N/A
 COKE LEVEL: 150'
 EXTRA CASING USED: N/A
 ADDITIONAL COMMENTS:
 0-20' - CASING
 20-240' - DRILL DRY
 240-300' - INJECT WATER