APPENDIX D

BASIC STRATIGRAPHIC DATA FROM OIL AND GAS WELLS ACROSS A SECTION OF MONUMENT DRAW, NM (T21S, R37E)

Basic Drillhole Data from T21S, R37E for Figures 29-31													
API (30-025-#)	Township (S)	Range (E)	Section	Feet from north (n) or south (s) line	Feet from east (e) or west (w) line	UTMX (m)	UTMY (m)	Reference Point Elevation (ft amsl)	Depth (ft) to top of Rustler Fm	Depth (ft) to top of Salado Fm	Thickness (ft) of Rustler Fm	Elevation (ft amsl) of top of Rustler	Elevation (ft amsl) of top of Salado
34937	21	37	1	990s	2430w	676917	3597578	3527	1538	1744	206	1989	1783
34411	21	37	2	3800s	1200w	674926	3598426	3498	1389	1590	201	2109	1908
06373	21	37	2	660s	1980w	675164	3597469	3473	1349	1554	205	2124	1919
37725	21	37	3	330s	330w	673048	3597335	3476	1282	1489	207	2194	1987
35734	21	37	3	1300s	1980e	673956	3597664	3477	1305	1513	208	2172	1964
37727	21	37	3	1940s	1760w	673483	3597825	3437	1257	1460	203	2180	1977
06388	21	37	3	1980s	660w	673148	3597838	3450	1275	1495	220	2175	1955
35354	21	37	3	3448n	1576w	673389	3598560	3469	1299	1522	223	2170	1947
35225	21	37	3	3240s	1839w	673508	3598222	3458	1283	1490	207	2175	1968
35352	21	37	3	2310n	990w	673211	3598907	3488	1310	1520	210	2178	1968
06386	21	37	3	1582n	330w	673010	3599129	3490	1320	1527	207	2170	1963
35224	21	37	4	3196s	426e	672817	3598208	3450	1280	1490	210	2170	1960
35768	21	37	4	330s	1980e	672343	3597335	3477	1276	1493	217	2201	1984
37983	21	37	4	2630s	2310e	672243	3598036	3483	1303	1517	214	2180	1966
37463	21	37	4	2310s	350e	672840	3597938	3481	1293	1503	210	2188	1978
36314	21	37	4	130s	1270e	672560	3597274	3479	1273	1496	223	2206	1983
36141	21	37	4	2460s	990e	672645	3597984	3479	1299	1511	212	2180	1968
35341	21	37	4	3630n	810e	672662	3598505	3428	1265	1480	215	2163	1948
35557	21	37	4	1050n	150e	672863	3599291	3483	1330	1542	212	2153	1941
34737	21	37	4	2620n	116e	672874	3598812	3483	1306	1516	210	2177	1967
06400	21	37	4	1582n	990e	672607	3599129	3486	1320	1529	209	2166	1957
35493	21	37	4	3168s	1650e	672444	3598200	3473	1304	1520	216	2169	1953
34738	21	37	4	3810s	200e	672886	3598395	3445	1257	1470	213	2188	1975
35351	21	37	4	2310n	810e	672662	3598907	3463	1304	1515	211	2159	1948
06397	21	37	4	1980s	660e	672746	3597838	3483	1295	1506	211	2188	1977
36811	21	37	4	3480s	1650e	672444	3598295	3480	1296	1514	218	2184	1966
06399	21	37	4	4620s	660e	672746	3598642	3465	1282	1494	212	2183	1971
35895	21	37	4	330s	2050w	671968	3597302	3478	1295	1512	217	2183	1966
06389	21	37	4	660s	660w	671544	3597402	3498	1304	1524	220	2194	1974
35875	21	37	4	330s	760w	671575	3597302	3501	1303	1523	220	2198	1978
12759	21	37	4	1980s	1980w	671947	3597805	3487	1293	1513	220	2194	1974
37236	21	37	5	3630n	330e	671192	3598481	3488	1326	1549	223	2162	1939
27954	21	37	7	330n	660e	669540	3597073	3538	1347	1577	230	2191	1961
21621	21	37	8	1980n	1980e	670739	3596597	3548	1330	1552	222	2218	1996
35350	21	37	9	1980s	330e	672882	3596220	3487	1292	1502	210	2195	1985
06445	21	37	9	660n	585e	672769	3597033	3480	1274	1484	210	2206	1996
37028	21	37	10	2375s	505e	674440	3596376	3446	1265	1471	206	2181	1975
37026	21	37	10	330n	330e	674459	3597167	3457	1296	1502	206	2161	1955
35905	21	37	10	550n	740e	674334	3597100	3449	1285	1486	201	2164	1963
35637	21	37	10	704n	2208e	673887	3597053	3431	1277	1475	198	2154	1956
35545	21	37	10	1470n	1350e	674149	3596820	3426	1250	1450	200	2176	1976
34367	21	37	10	42n	2334e	673849	3597255	3427		1455			1972
37876	21	37	10	2360n	1650e	674057	3596549	3447	1260	1460	200	2187	1987
06553	21	37	12	660s	2310e	677097	3595907	3463	1460	1670	210	2003	1793
23953	21	37	18	660s	330e	669686	3594159	3509	1230	1443	213	2279	2066
21035	21	37	19	990n	884w	668478	3593627	3533	1257	1472	215	2276	2061
23494	21	37	30	1650s	660w	668461	3591214	3527	1199	1424	225	2328	2103
24084	21	37	30	660s	1820w	668815	3590912	3518	1200	1424	224	2318	2094
24120	21	37	31	330n	330w	668361	3590610	3523	1184	1405	221	2339	2118

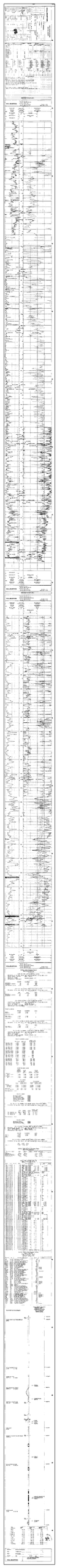
Value in red indicates a ground-level elevation obtained from a topographic map. UTM (NAD27) coordinates were calculated from the map values of the nearest section corner.

APPENDIX E

ELECTRONIC FILES OF GEOPHYSICAL LOGS OF DRILLHOLES AT AND NEAR THE WCS SITE

A CD-ROM is attached to the report with electronic files of geophysical logs from drillholes in the vicinity of the WCS site. These files are in TIFF format and are best viewed with software such as Quick View Plus® because of the length of each log. There are no markings of stratigraphic contacts on these logs from this study.

The files from the CD-ROM have been converted to PDFs and follow this page.



Ministry of Finance	
Revenue Canada	
Taxation	
Revenue Canada	
Taxation	
Revenue Canada	
Taxation

Operator	Chesapeake Appalachia, L.L.C.
Operator Address	14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134-2646
Surface Owner	Gerald Lee Bowman
Surface Owner Address	1000 Bowman Lane Sistersville, WV 26175
Mineral Owner	Gerald Lee Bowman, et al
Mineral Owner Address	1000 Bowman Lane Sistersville, WV 26175
Latitude	39.3125
Longitude	-80.8125
Elevation	1,000'
Proposed Depth	7,500'
Formation	Marcellus Shale
Drilling Method	Rotary
Casing Program	13 3/8" 54.5# J-55 BTC @ 500' 9 5/8" 40# J-55 BTC @ 2,500' 5 1/2" 20# P-110 BTC @ 7,500'
Cement Program	13 3/8" Cement to surface 9 5/8" Cement to surface 5 1/2" Cement to 2,000'
Completion Method	Plug & Perf
Stimulation Method	Slickwater
Stimulation Rate	80 bbl/min
Stimulation Pressure	8,000 psi
Stimulation Volume	4,000,000 gal
Proppant Type	100 Mesh, 40/70
Proppant Volume	4,000,000 lbs
Water Source	Fresh Water
Water Volume	4,000,000 gal
Water Quality Test	Yes
Water Quality Test Date	2/1/2011
Water Quality Test Results	Attached
Water Quality Test Location	Gerald Lee Bowman
Water Quality Test Author	Chesapeake Appalachia, L.L.C.
Water Quality Test Author Address	14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134-2646
Water Quality Test Author Phone	405-848-8000
Water Quality Test Author Email	
Water Quality Test Author Fax	
Water Quality Test Author Contact	
Water Quality Test Author Contact Phone	
Water Quality Test Author Contact Email	
Water Quality Test Author Contact Fax	
Water Quality Test Author Contact Address	
Water Quality Test Author Contact Author	
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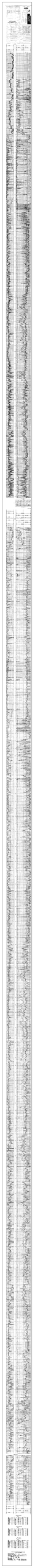

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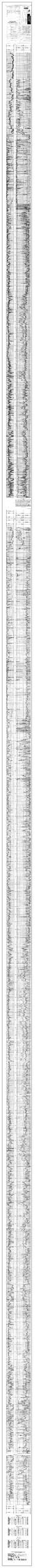

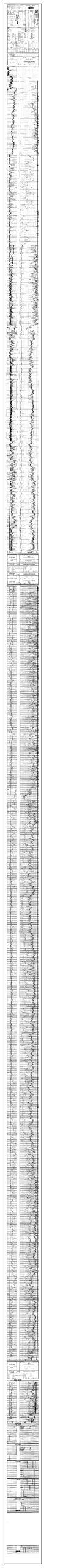

Dresser Atlas

Company/Well/Field/County/State/Other Services

Densilog Neutron

COMPANY: MERIDIAN OIL CORPORATION
WELL: GUTMAN NO. 2
FIELD: WANTZ (DENAVITE MAINS)
COUNTY: LEA STATE: NEW MEXICO

Other Services: BHC AL, FI, MLL

Permanent Datum: GROUND LEVEL — Elev.: 3209
Log Measured From: KB — 12.0 Above Permanent Datum
Drilling Measured From: KB

Date	6-6-75	
Run Number	ONE	
Depth-Driller	12147	
Depth-Logger	12147	
Bottom Logged Interval	12147	
Top Log Interval	11900	
Casing-Driller	9 5/8 @ 1783	@ @
Casing-Logger	1783	
Bit Size	7 7/8	
Type Fluid in Hole	BRINE	
Density	10.0	
Viscosity	50	
Ph	10.0	
Fluid Loss	10	
Source of Sample	CIRCULATED	
Rm @ Meas. Temp.	.0628 @ 75	@ @
Rmf @ Meas. Temp.	.0628 @ 75	@ @
Rmc @ Meas. Temp.	.0628 @ 75	@ @
Source of Rmf & Rmc	MEAS.	
Rm @ BHT	.0628 @ 174	
Time Since Circ.	8 HOURS	
Max. Rec. Temp. Deg. F	174	
Equip. No. and Location	2-411 MIDLAND	
Recorded By	M.STANLEY	
Witnessed By	MR. KIRKWOOD	

COMPLETION RECORD

SPUD DATE

P. COMP DATE

TOT RECORD

FPL NO. EW-NM-NMB

CASING RECORD

PERFORATING RECORD

PERIODATING RECORD

ACID FRAC SHOT

I.P.

GOR GR

I.P. I.P.

REMARKS

Remarks: CALIPER TOOL IS ABOUT THIS AS LARGE AS LIGHT BULB.

Equipment Data			
Recorded	12127	6414	1100
Recorded	12127	1783	1100
Recorded	12127	1783	1100
Recorded	12127	12127	1100
Recorded	12127	12127	1100
Recorded	12127	12127	1100
Recorded	12127	12127	1100
Recorded	12127	12127	1100

Equipment Data			
Tool Number	1-411	Tool Number	1-411
Tool Number	1-411	Tool Number	1-411
Tool Number	1-411	Tool Number	1-411

Operator	Chesapeake Operating, Inc.	Lease Name	Hoover
Well No.	1-29	Field	Wildcat
County	Ellis	State	Kansas
Date	12-29-2010	Time	0:00
Elevation	2200	Location	1980 FSL 1980 FEL
Sec.	29	Twp.	14 S
Rge.	19 W		

Project	Proposed Residential Development
Location	Ballycorkane, Ballinrobe, Co. Mayo
Client	Ballinrobe Development Company Ltd.
Contractor	Ballinrobe Development Company Ltd.
Operator	Ballinrobe Development Company Ltd.
Hole Type	Trial Pit
Ground Level (mOD)	50.00
Easting	519
Northing	280
Date Started	12/12/2024
Date Completed	12/12/2024
Logged By	Ryan Mc Donnell
Checked By	Ryan Mc Donnell
Weather	Cold, Dry

Depth (m)	Description
0.00	Topsoil
0.30	Brown Sandy Gravelly Clay with occasional Cobbles and Boulders
1.00	Brown Sandy Gravelly Clay with occasional Cobbles and Boulders
1.50	Brown Sandy Gravelly Clay with occasional Cobbles and Boulders
2.00	Brown Sandy Gravelly Clay with occasional Cobbles and Boulders

PAGE 1.0

SCHLUMBERGER WELL SURVEYING CORPORATION

COMPANY: [illegible]

WELL: [illegible]

FIELD: [illegible]

COUNTY: [illegible]

STATE: [illegible]

Other Services: [illegible]

Permanent Datum: [illegible]

Log Measured From: [illegible]

Drilling Measured From: [illegible]

Elev.: [illegible]

Date	[illegible]		
Run No.	[illegible]		
Depth-Driller	[illegible]		
Depth-Logger	[illegible]		
Bottom Log Interval	[illegible]		
Top Log Interval	[illegible]		
Casing-Driller	[illegible]		
Casing-Logger	[illegible]		
Bit Size	[illegible]		
Type Fluid in Hole	[illegible]		
Density	[illegible]		
Viscosity	[illegible]		
Fluid Loss	[illegible]		
Source of Sample	[illegible]		
Rm at Meas. Temp.	[illegible]		
Rmf at Meas. Temp.	[illegible]		
Rmc at Meas. Temp.	[illegible]		
Source Rmf / Rmc	[illegible]		
Rm at BHT	[illegible]		
Max. Rec. Temp.	[illegible]		
Equipment Location	[illegible]		
Recorded By	[illegible]		
Witnessed By	[illegible]		

Run No. [illegible]

Bit No.	Type	Size	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Casing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tubing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Perforations

Type	Size	Number	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Remarks: [illegible]

Equipment Location: [illegible]

Recorded By: [illegible]

Witnessed By: [illegible]

Run No. [illegible]

Bit No.	Type	Size	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Casing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tubing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Perforations

Type	Size	Number	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Remarks: [illegible]

Equipment Location: [illegible]

Recorded By: [illegible]

Witnessed By: [illegible]

Run No. [illegible]

Bit No.	Type	Size	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Casing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tubing Record

Size	Wgt.	Grade	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Perforations

Type	Size	Number	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Remarks: [illegible]

Equipment Location: [illegible]

Recorded By: [illegible]

Witnessed By: [illegible]

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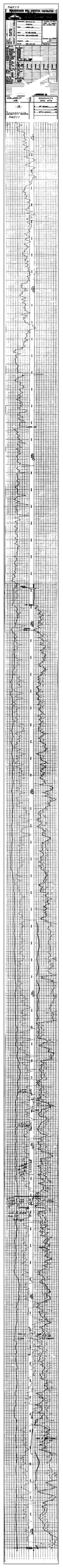
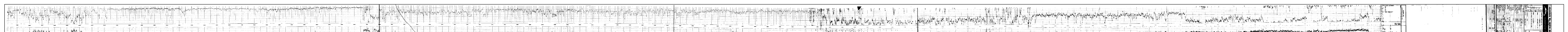




SCHLUMBERGER WELL SURVEYING CORPORATION

Gamma Ray Neutron

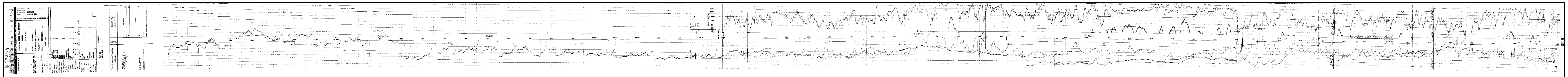
COMPANY PETROLEUM PRODUCTS
WELL LOCKHART # 1
FIELD WILDCAT
COUNTY LEA
STATE NEW MEXICO
LOCATION 1980' FSL & 1980' FEL
SEC. 2 T-16-S R-35-E
ELEV. K.B. 4192
D.F. 4191
G.L. 4179
Date 8-4-55
Run No. ONE
Depth-Driller 9112
Depth-Logger 9116
Bottom Log Interval 9114
Top Log Interval 8800
Casing-Driller 13 3/8 @ 1500
Casing-Logger 1500
Bit Size 12 1/4
Type Fluid in Hole SALT WATER
Dens. 10.0
Visc. 50
pH 10.0
Fluid Loss 10.0
Source of Sample CIRCULATED
Rm @ Meas. Temp. .75 @ 80°F
Rmf @ Meas. Temp. .60 @ 80°F
Rmc @ Meas. Temp. .90 @ 80°F
Rm @ BHT .50 @ 180°F
Time Since Circ. 14 HRS
Max. Rec. Temp. 180°F
Equipment No. 5792
Location HOBBS
Recorded by R. CRAGG
Witnessed by H. E. WILLIAMS

REMARKS: CASING COLLAR LOCATOR RUN
RECORDED FROM 8800 TO 9114
PRESENT TEMP. 180 FROM 8800 TO 9114
PRESENT TEMP. 180 FROM 8800 TO 9114

SCALE 2" = 100'
SCALE 2" = 100'
SCALE 2" = 100'

GAMMA RAY
MICROROENTGEN PER HOUR
0 10 20 30 40 50 60 70 80 90 100

NEUTRON
STANDARD COUNTS PER SECOND
Neutron Counting Rate
Counting Rate Meter Sensitivity 100 KCPMS 40 Mar
Scale Factor Base 10 MICROSEC in Mode Mar
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

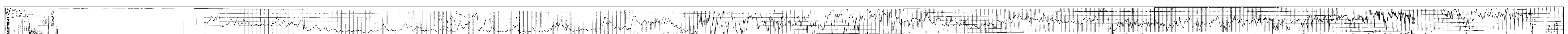

Mudlogging Unit Depth
5500
5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800
6850
6900
6950
7000
7050
7100
7150
7200
7250
7300
7350
7400
7450

PERFORATING DIVS ATLAS CORP.

SULTANEOUS RADIATION LOG

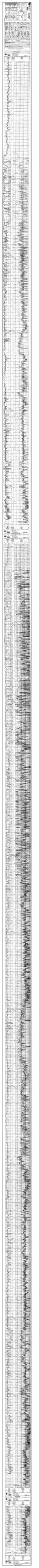
COMPANY	L. E. ELLIOTT
WELL	PARKELL #4
FIELD	LITTMAN
COUNTY	LEA
STATE	NEW MEXICO
LOCATION	2310 FSL 2310 FEL TWP 21S RGE 36E
ELEVATION	3677
DATE	10-21-58
TOTAL DEPTH	4320
DRILLING METHOD	ROTARY
TYPE OF FLUID	BRINE
MAX. REC. TEMP.	104
RUN NO.	ONE
CASING RECORD	SURFACE TO 4306
DRILL PIPE RECORD	4" TO 4306

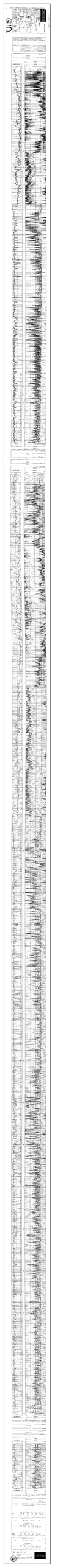
REMARKS AND OTHER DATA



Date	1/1/1
Time	1:1:1
Operator	
Well	
Field	
Company	
Comments	

Depth	1.1
Speed	1.1
Tension	1.1
Gamma Ray	1.1
Density	1.1
Neutron	1.1
Caliper	1.1
Resistivity	1.1





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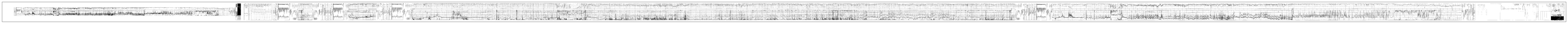

ANDREWS

Sw

Operator	Andrews
Lease	Sw
Well	
Field	
County	
State	
Date	
Elevation	
Total Depth	
Comments	

| | | |

ANDREWS

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10

[illegible]

| | | |

[illegible]

[illegible]

[illegible]

[illegible]

大阪証券取引所

銘柄	市場	業種
[illegible]	[illegible]	[illegible]

取引	信用	貸株	売買
[illegible]	[illegible]	[illegible]	[illegible]

日付	曜日	前日	始値	高値	安値	終値	出来高	売買代金
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ministerio de Minas y Energía

Instituto Colombiano de Geología y Minas

Sondeo Eléctrico Vertical

Ciudad: Cali

Fecha: 1 Mayo 1 1 1

Schlumberger

Dresser Atlas

Well Site Chart

Company	
Well	
Field	
County	
State	
Date	
Run No.	
Depth Driller	
Depth Logger	
Bottom Log Interval	
Top Log Interval	
Casing Driller	
Casing Logger	
Bit Size	
Type Fluid in Hole	
Density	
Viscosity	
pH	
Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Rm @ BHT	
Time Since Circ.	
Max. Rec. Temp.	
Equip. Location	
Recorded By	
Witnessed By	

Run No.	Bit Size	From	To

Type	Size	Wt.	Depth