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ROTARY SIDEWALL CORE ANALYSIS REPORT

FOR

CONOCOPHILLIPS COMPANY

SEMU # 175

LEA COUNTY, NEW MEXICO

Unit H, 23-20s-37e
2020/N & 330/E
API # 30-025-39187

CONOCOPHILLIPS COMPANY
SEMU # 175
LEA COUNTY, NEW MEXICO
U.S.A.
File: MD-42410



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LABORATORIES



January 20, 2009

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CONOCOPHILLIPS COMPANY

Attn: DEWI LARASATI
Westlake II, Room 13082
P.O. Box 2197
Houston, TX 77252-2197

Attn: DEWI LARASATI

RE: SEMU # 175

Rotary Sidewall Core Analysis

Ms. LARASATI:

The core analysis data from the above referenced well is enclosed in the following pages.

All quality control data is enclosed in a separate section of the report. The data, results, and photographic negatives will be maintained in our files for your future reference. If you have any questions regarding our results or procedures, please do not hesitate to contact us. We appreciate the opportunity to analyze the core from the above referenced well and look forward to working with you again in the future.

DISTRIBUTION

CONOCOPHILLIPS COMPANY

Attn: DEWI LARASATI
Westlake II, Room 13082
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3 Copies of the report with photographs and 3 CD-ROMs

CONOCOPHILLIPS COMPANY

Attn: MICHELLE NAVARRETTE
4001 Penbrook Street
Odessa, TX. 79762
4 Copies of the Report and 1 CD-ROM

Sincerely,

Wayne Helms, General Manager
Weatherford Laboratories

CONOCOPHILLIPS COMPANY

SEMU # 175
LEA COUNTY, NEW MEXICO
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CORE ANALYSIS PROCEDURES

FOR

CONOCOPHILLIPS COMPANY

SEMU # 175

LEA COUNTY, NEW MEXICO

The Rotary Sidewalls were picked up by Weatherford Laboratories.

Gases from the Sidewalls were measured by Hot Wire Chromatography and reported in Gas Units.

A brief Lithological Description of the Sidewalls was recorded.

A description of the Fluorescence of the Sidewalls was recorded.

Ultraviolet Light Photographs were taken of the Sidewalls for a permanent record.

Natural Light Photographs were taken of the Sidewalls for a permanent record.

Composite Photographs of the Sidewall End Trims were taken under Natural and Ultraviolet Light.

The Sidewalls were extracted utilizing the Dean Stark method.

The fluids were measured by the Dean Stark method.

Porosities were measured in a Boyle's Law Porosimeter utilizing Helium.

Permeabilities were measured in a Hassler Sleeve Permeameter utilizing Nitrogen at 300 psi confining pressure.

Test samples of a known permeability were measured before and after the Sidewall permeabilities were measured.

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ROTARY SIDEWALL CORE ANALYSIS

CONOCOPHILLIPS COMPANY
SEMUR NO. 175
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-39187
FIELD : Weir / Monument
LOCATION: 2020' FNL, 330' FEL,
Section 23, T-20-S, R-37-E

FILE NO. : MD-42410
DATE : January 22, 2009
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	2849.0	2.87	2.4	0.009	37.5	10.9	146	20	Brt gld	Ss opaq-gy vf-fgr sbrnd-sbang sslty anhyd
2	2894.0	2.82	4.8	0.204	56.3	16.8	60	40	Gld	Ss opaq-gy vf-fgr sbrnd-sbang sslty sc A/I
3	2919.0	2.80	5.1	0.011	80.6	0.0	8	0		Ss opaq-rd-brn vf-fgr sbrnd-sbang sslty sc A/I
4	3003.0	2.91	0.9	0.009	91.9	0.0	15	0		Anhy gy-bl slty sdy sc ss intrbd
5	3006.0	2.77	3.4	0.055	53.6	14.1	180	50	Brt yl-dl gld	Ss opaq-tn-brn vf-fgr sbrnd-sbang sslty sc A/I
6	3204.0	2.84	3.5	<.001	76.4	0.0	8	0		Ss opaq-tn-brn-rd vf-fgr sbrnd-sbang sslty abd A/I
7	3595.0	2.84	2.1	0.013	22.0	21.3	313	60	Brt yl-gld-bl	Dol tn-brn sslty tr ppp-sml vug sc sml A/I
8	3606.0	2.68	12.4	1.824	62.7	7.9	116	70	DI yl	Ss opaq-tn-gy vf-fgr sbrnd-sbang sslty sc slty intrbd
9	3616.0	2.83	2.1	0.011	32.5	Tr	64	10	Brt yl	Dol gy sslty sdy sc slty intrbd
10	3630.0	2.63	24.4	142.343	64.7	4.0	32	90	DI yl	Ss opaq-gy fgr sbrnd-sbang sslty
11	3680.0	2.62	22.5	66.160	69.2	3.8	34	90	DI yl	Ss opaq-gy fgr sbrnd-sbang sslty
12	3880.0	2.78	5.2	0.012	27.0	Tr	8	Tr	Brt yl	Dol gy sslty sdy sc slty intrbd
13	3923.0	2.71	12.6	0.230	17.7	24.0	453	90	Brt yl-dl gld	Ss opaq-gy vf-fgr sbrnd-sbang mod-sslty
14	3956.0	2.76	6.9	0.011	12.9	25.4	421	70	Brt yl-gld	Dol gy sslty sdy tr ppp-sml vug
15	3968.0	2.83	9.1	3.204	15.4	25.1	502	90	Brt yl	Dol tn-brn sslty ssdy sc ppp-sml vug
16	3975.0	2.84	11.7	24.988	17.0	27.7	415	90	Brt yl	Dol tn-brn sslty ssdy sc ppp-sml vug sty
17	4012.0	2.85	6.3	0.334	30.9	8.5	160	20	Brt yl	Dol tn-brn sslty ssdy sc ppp-sml vug sty
18	4015.0	2.83	7.5	0.075	37.5	13.1	193	40	Brt yl	Dol tn-brn sslty ssdy sc ppp-sml vug
19	4018.0	2.82	6.4	1.176	11.2	19.5	393	60	Brt yl-gld	Dol tn-gy sslty sc ppp-sml vug sty



ROTARY SIDEWALL CORE ANALYSIS



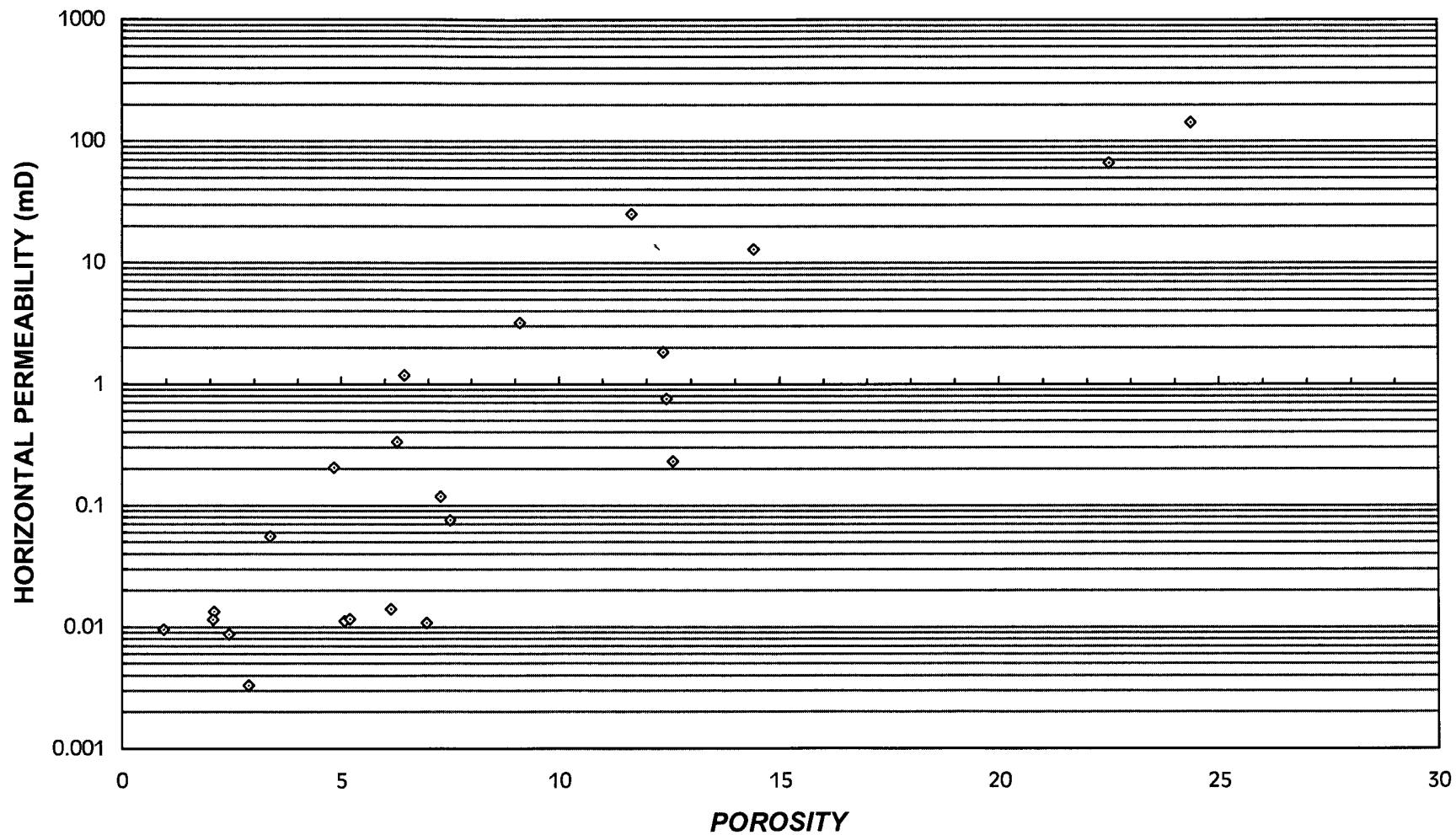
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DEAN STARK EXTRACTION

SAMPLE	DEPTH	GRAIN	POR	PERM	SATURATIONS		GAS	FLUORESCENCE		
NO.	ft	DENSITY	%	mD	Sw	So	UNITS	%		LITHOLOGY
20	4036.0	2.84	12.4	0.756	10.5	14.3	542	70	Brt yl-gld	Dol tn-gy sslty sc ppp-sml vug s/p
21	4061.0	2.85	6.1	0.014	11.2	13.0	642	90	Brt yl	Dol tn-brn sslty tr ppp-sml vug
22	4071.0	2.85	2.9	0.003	26.6	23.1	334	90	Brt yl	Dol tn-brn sslty tr ppp-sml vug
23	4183.0	2.85	4.1	tbfa	26.5	15.4	263	40	Brt yl	Dol tn-brn sslty tr ppp-sml vug
24	4192.0	2.83	7.3	0.118	13.6	18.0	622	80	Brt yl	Dol tn-brn sslty tr ppp-sml vug
25	4213.0	2.83	14.4	12.923	11.3	18.3	289	90	Gld	Dol tn-brn-gy sslty abd sml vug





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CONOCOPHILLIPS COMPANY

SEMU NO. 175

02/04/2009

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
1	2.869	2.868	2.48	2.42			
5	2.772	2.772	3.37	3.36	2.620	0.055	0.051
8	2.684	2.683	12.41	12.37			
10	2.634	2.628	24.37	24.38		142.343	142.565
14	2.760	2.761	6.90	6.94			
16	2.838	2.838	11.67	11.66		24.988	25.368
19	2.820	2.821	6.43	6.45			
22	2.847	2.846	2.90	2.87	2.615	0.003	0.003
25	2.827	2.829	14.36	14.41			

LITHOLOGICAL ABBREVIATIONS

Anhydrite (-ic)	anhy, anhyd	Filled	fd	Poor	pr
Anhydrite inclusion	A/I	Fine (-ly)	f, fnly	Pyrite	pyr
Bentonite (-ic)	bent	Fluorescence	flu	Quartz (-itic)	qtz
Black (-ish)	blk, blksh	Fossil (-iferous)	foss	Red	rd
Bleeding Oil	B/O	Fracture	frac	Round	rnd
Brecciated	brec	Fragments	frag	Residual Oil	So
Bright	brt	Friable	fri	Residual Water	Sw
Brittle	brit	Fusulinid	fus	Sample	Spl
Broken	brkn	Gilsonite	gil	Sandstone	Ss
Brown	brn	Gold	gld	Sandy	sdly
Buff	bf	Good	gd	Scattered	sc
Calcite (-ic)	calc, calctc	Grain (-s)	gr	Shaley	shy
Calcareous	calc	Granular	gran	Shale	sh
Carbonaceous	carb	Gray	gy	Shale parting	s/p
Cement	cmt	Gypsum	gyp	Silt (-y)	slt, slty
Chalk (-y)	chk, chky	Hair line(frac)	hl	Slight (-ly)	sli, s
Chert	cht	Halite	hal	Small	sml
Clay	cl	Inclusion	incl	Spotted (-y)	sp
Coal	c	Laminations (ated)	lam	Stringer	strgr
Coarse	crs	Large	lrg	Stylolite (-itic)	sty, styl
Conglomerate	cgl	Light	lt	Sucrosic	suc
Consolidated	consol	Limestone	ls	Sulphur	su
Contaminated	contam	Limey	lmy	Tan	tn
Crinoid (-al)	crin, crinal	Lithology	lith	Too broken (for Analysis)	tbfa
Cross-bedded	x-bd	Medium	m	Thin	thn
Crystal (-line)	Xl, xln	Mineral Fluorescence	mf	Trace	Tr
Dark	dk	Moderate	mod	Very	v
Dense	dns	Mudcake	m/c	Vertical	vert, vt
Diameter	dia	No Show	N/S	Vug (-gy)	vug
Dolomite (ic)	dol, dolm	Oolite (-itic)	ool		
Dull	dl	Pale	pl		
Faint	fnt	Permeability	Perm, K		
Fair	fr	Pin-Point Porosity	ppp		