

CORE LABORATORIES

Company : YATES DRILLING COMPANY Well : PARROT "29" FEDERAL COM NO. 1 Location : 1250' FNL & 660' FEL, SEC. 29, T-19-S, R-27-E Co,State : EDDY COUNTY, NEW MEXICO	Field : MCMILLAN FIELD Formation : VARIOUS Coring Fluid : SALT GEL Elevation : 3449' KB	File No.: 57181-18922 Date : 4-19-05 API No. : 30-015-33233 Analysts: SEBIAN
--	--	---

SIDEWALL CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	Sample Rec. in.	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
					(PORE VOLUME)		(BULK VOLUME)				
					OIL %	WATER %	OIL %	GAS %			

DRILLED SIDEWALL ANALYSIS

SECOND BONE SPRING FORMATION

1	6878.0	1.9	0.16	1.4	0.0	97.1	0.0	0.0	2.70	150.	Sltstn, blk, foss frag, calc, 0% flu no cut
2	6952.0	2.0	0.11	1.6	1.5	96.5	0.0	0.0	2.70	100.	Sltstn, blk, foss frag, calc, 0% flu tr cut
3	7117.0	1.8	0.06	6.9	2.5	47.8	0.2	3.4	2.69	185.	Sd, dk gry, vf-slt gr, pyrt, 0% flu tr cut
4	7128.0	1.8	0.10	7.1	8.5	44.7	0.6	3.3	2.69	175.	Sd, dk gry, vf-slt gr, pyrt, 0% flu poor cut
5	7136.0	1.8	0.10	5.5	8.6	55.3	0.5	2.0	2.69	200.	Sd, dk gry, vf-slt gr, pyrt, 0% flu poor cut

THIRD BONE SPRING SAND FORMATION

6	7662.0	1.8	0.24	2.6	4.8	85.3	0.1	0.3	2.69	145.	Sd, dk gry, slt-vf gr, pyrt, lam, 0% flu poor cut
---	--------	-----	------	-----	-----	------	-----	-----	------	------	---

WOLFCAMP FORMATION

7	7900.0	1.9	0.11	2.0	0.0	98.0	0.0	0.0	2.67	80.	Sltstn, blk, calc, pyrt, 0% flu no cut
8	7914.0	1.5	0.07	1.0	0.0	97.1	0.0	0.0	2.61	78.	Sltstn, blk, pyrt, 0% flu no cut

UPPER PENNSYLVANIAN FORMATION

9	8308.0	1.2	0.06	3.2	0.0	54.5	0.0	1.5	2.84	0.	Dol, pyrt, sli vug, mineral flu, 0% flu no cut
10	8322.0	1.8	0.15	1.2	0.0	71.9	0.0	0.3	2.82	0.	Dol, mineral flu, 0% flu no cut
11	8554.0	1.2	7.79	9.8	0.0	74.5	0.0	2.5	2.83	0.	Dol, vug, mineral flu, 0% flu no cut
12	8578.0	1.2	2.97	9.0	0.0	88.1	0.0	1.1	2.83	1.	Dol, vug, mineral flu, 0% flu no cut
13	8590.0	1.8	73.8	14.1	0.0	69.3	0.0	4.3	2.84	1.	Dol, pp, mineral flu, 0% flu no cut

CORE LABORATORIES

Company : YATES DRILLING COMPANY
Well : PARROT "29" FEDERAL COM NO. 1

Field : MCMILLAN FIELD
Formation : VARIOUS

File No.: 57181-18922
Date : 4-19-05

SIDEWALL CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	Sample Rec. in.	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
					(PORE VOLUME) OIL %	(PORE VOLUME) WATER %	(BULK VOLUME) OIL %	(BULK VOLUME) GAS %			
14	8614.0	1.8	0.13	1.3	0.0	82.1	0.0	0.2	2.84	0.	Dol, sli vug, mineral flu no cut
15	9008.0	1.3	0.05	5.0	6.8	67.5	0.3	1.3	2.71	135.	Sd, gry, f-med gr, pyrt, 0% flu tr cut
UPPER STRAWN FORMATION											
16	9279.0	1.0	0.09	6.3	5.4	21.0	0.3	4.6	2.69	105.	Lim, foss, styl, 0% flu tr cut
17	9287.0	1.5	0.05	3.5	4.4	23.6	0.2	2.5	2.71	135.	Lim, foss, styl, 0% flu tr cut
UPPER MORROW FORMATION											
18	10020.0	1.5	0.05	1.7	0.0	97.8	0.0	0.0	2.60	0.	Sd, dk gry, sli-vf gr, sli calc, sli pyrt, 0% flu no cut
19	10026.0	1.0	0.16	0.9	0.0	62.1	0.0	0.3	2.71	1.	Lim, sli dol, 0% flu no cut
LOWER MORROW FORMATION											
20	10198.0	1.6	0.05	4.0	3.0	43.5	0.1	2.1	2.64	9.	Sd, gry, f gr, lam, 0% flu no cut
21	10200.0	1.8	0.09	4.3	0.0	65.0	0.0	1.5	2.66	90.	Sd, gry, f gr, lam, 0% flu no cut
22	10298.0	1.8	0.36	7.0	0.0	97.6	0.0	0.2	2.67	100.	Sltstn, blk, lam, 0% flu no cut
AUSTIN CYCLE FORMATION											
23	10348.0	1.8	0.02	1.1	0.0	96.3	0.0	0.0	2.77	10.	Sd, mott, vf-slt gr, pyrt, lim, sli lam, 0% flu no cut

LITHOLOGICAL ABBREVIATIONS

Anhy, anhy	Anhydrite (-ic)	Lim, lim	limestone
Ark, ark	arkos (-ic)	med gr	medium grain
bnd	band (-ed)	Mtrx	matrix
brec	breccia	NA	interval not analyzed
Calc, calc	calcite (-ic)	Nod, nod	nodules (-ar)
carb	carbonaceous	Ool, ool	oolite (-itic)
crs gr	course grained	Piso, piso	pisolite (-itic)
Chk, chky	chalk (-y)	pp	pin-point (porosity)
Cht, cht	chert (-y)	Pyr, pyr	pyrite (-itized, itic)
Cgl, cgl	conglomerate (-ic)	Sd, sdy	sand (-y)
crs xln	coarsely crystalline	Shr	solid hydrocarbon residue
dns	dense	sli/	slightly
Dol, dol	dolomite (-ic)	Sltstn, slty	siltstone, silty
Frac	randomly oriented fractures	styl	stylolite (-itic)
frac	slightly fractured	suc	sucrosic
f gr	fine grained	Su, su	sulphur, sulphurous
foss	fossil (-iferous)	TBFA	TOO BROKEN FOR ANALYSIS
f xln	finely crystalline	Trip, trip	tripolitic
Gil, gil	gilsonite	v/	very
Glauc, clauc	glauconite (-itic)	vert frac	perdominantly vertically fractured
Grt	granite	vug	vuggy
Gyp, gyp	gypsum (-iferous)	xbd	crossbedded
hor frac	perdominantly horizontally fractured	xln	medium crystalline
incl	inclusion (-ded)	xtl	crystal
intbd	interbedded		
lam	lamina (-tions, -ated)		

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.