

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

S I D E W A L L C O R E A N A L Y S I S R E S U L T S

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 %	WATER %	(BULK VOLUME) 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

S I D E W A L L C O R E A N A L Y S I S R E S U L T S

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 %	WATER %	(BULK VOLUME) OIL %	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.