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KANSAS CORPORATION COMMISSION
FEB 11 2009
CONSERVATION DIVISION
WICHITA, KS

GEOLOGIST'S WELL REPORT

COMPANY IA OPERATING, INC. (33335)
WELL ~~Farmer #14-1~~ Farmers 14-1
FIELD Wildcat
LOCATION (legal) Ap. S½ NW NW (955' FNL & 510' FWL)
Section 14 TWP 11S RGE 16W
(Map) 6 mi N & 1 mi E of Blue Hill School
COUNTY Ellis STATE Kansas
ELEVATION: 1854' K.B., 1849' G.L.
Depths measured from Kelly Bushing
A.P.I. NUMBER 15-051-25832
GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Murfin Drilling Co., Inc. (30606)
RIG #16 (Andy Dinkel TP) HYDRAULICS D-375 6x14x60
DRILL PIPE 4½" X COLLARS 6¼" 17 (508')
CASING: SURFACE 8 5/8" @ 220' w/ 150 sx Common
PRODUCTION 5½" @ 3567' w/ 135 sx Common 10% PC @ 1030'
DRILLING FLUID: COMPANY Andy's Mud & Chemical Co. (Dennis Rector)
TYPE: Chemical
REMARKS: Full service
DRILL STEM TESTS: COMPANY Trilobite Testing Inc. (Jason McLemore)
NUMBER OF TESTS Two (2)
ELECTIC LOGS: COMPANY Superior Well Service
TYPE DI, Comp N-D, Micro
DETAIL (5") 2700' - RTD
DRILLING TIME FROM 2700' TO RTD
SAMPLE TIME FROM 2700' TO RTD
SUPERVISION FROM 2700' TO RTD
VERTICAL DEVIATION ½°@ 220', ½°@ 1922', ½°@ 3180', ½°@ 3568'
PLUGGING REPORT 30 sx Rat, 15 sx Mouse
RESERVE PIT 800 bbls., Chl 92,000

DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
10-09-08		MIRU, Spud
10-10-08	675'	Drilling under surface
10-11-08	2365'	Drilling lime & shale
10-12-08	2910'	Drilling lime
10-13-08	3180'	DST #1 LKc C-G
10-14-08	3385'	Drilling lime
10-15-08	3568'	TD, Run casing

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP	
1	2539'						Displace
2	2820'	8.7	57				
3	2920'	8.9	54				
4	3020'	8.8	51				
5	3090'	8.8	51	8.8	3k	15	LCM tr.
6	3140'	8.9	52				
7	3257'	9.0	48	10.4	6k	14	LCM tr. $ 4942
8	3350'	9.0	52				
9	3470'	9.1	60				
10	3568'	9.0	55	10.8	6k	15	LCM tr. $ 4942.
11							

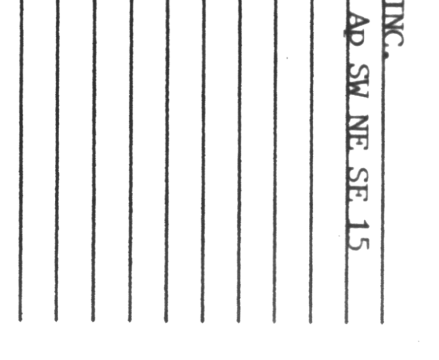
BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
1	12 ¼"	HTCo.	ADC115	220'	220'	2 3/4
2	7 7/8"	HTCo	GX20C	3568'	3348'	94 ¼
3						
4						
5						
6						
7						

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	LKc C-G 3096-3180'	54# 84# 30"	413# 45"	90# 112# 60"	412# 90"	1585# 1522#	240' GIP 45' Oil 33° 110' H,O,C,Mud 25° O
2	LKc I-L 3218-3310'	50# 66# 30"	985# 45"	68# 79# 60"	972# 90"	1589# 1563#	70' O,Sp,Mud
3							
4							
5							
6							
7							
8							

FORMATION TOPS & STRUCTURAL GEOLOGY



REFERRED TO:
A: IA OPERATING, INC. Charles #15-1 Ap SW NE SE 15
B:
C:
D:
E:

STRATIGRAPHIC MARKERS	SUBJECT WELL SAMPLE	SUBJECT WELL E. LOG	DATUM	STRUCTURAL POSITION A	B	C	D	E
Anhydrite	1035'	1029'	+ 825	+ 838				
Base	1072'	1066'	+ 788	+ 797				
Topeka	2783'	2781'	- 927	- 920				
Heeb. Sh.	3026'	3023'	-1169	-1162				
Toronto	3046'	3044'	-1190	-1183				
Lansing	3078'	3073'	-1219	-1212				
BKc.	3315'	3313'	-1459	-1452				
Pleas.	3328'	3324'	-1470	-1465				
Cong.	3390'	3390'	-1536	-1514				
Arbuckle	3518'	3519'	-1665	-1629				
TD	3568'	3568'	-1714	-1697				

Pipe strap 1.15' long, (windy).

*Structural position of subject well as compared to referred well.

SUMMARY

The Farmer #14-1 well was drilled with Murfin Drilling Co., Inc. tools rig #16 beginning 10-9-08 and drilling was completed 10-15-08.

The drillsite was located via a 3-D seismic survey. The well ran structurally as expected from seismic.

Quality reservoir development was encountered in several zones.

Based upon the two DST's and electric logs, 5½" casing was set and cemented to further test and produce the well.

Recommended perfs; LKc K 3280-82', J 3247-50', F 3157-60', D 3120-24', C 3104-09', Tor. 3047-50'.

Respectfully,

Randy
Randall Kilian

Displaced @ 2539'

Sh-sltstn-gry
Ls-gry-tan-fn xln-fossil sl chalky-pyrite
Sh-gry-grn-red
Sh-gry
Ls-tan-offwhite-fn xln-fossil pyrite
Sh-sltstn-gry-red-grn
Ls-tan-brn-fn xln-fossil
Ls-a/a
Ls-a/a
Sh-gry-grn
Mud Vis.-57 Wt.-8.7
Ls-tan-offwhite-fn xln-fossil sl chalky
Ls-tan-fn xln-fossil sl. chalky-pyrite
Ls-off white-fn xln-fossil
Mud Vis.-60 Wt.-8.8
Ls a/a
Sh-gry-dark gry
Sltstn-tan-gry
Ls-offwhite-fn xln-fossil pyrite
Ls-offwhite-tan fn xln fossil
Mud Vis.-54 Wt.-8.9
Ls-a/a
Sh-sltstn-gry
Ls-offwhite-fn-xln-fossil
Sh-Sltstn
Ls-gry-tan-offwhite-fn xln fossil-sl chalky
Ls-tan-offwhite-fn xln fossil
Ls-a/a
Sltstn-gry
Ls-tan-offwhite-fn xln
Ls-tan-offwhite-fn xln
Mud Vis.-51 Wt.-8.8.
Sh-blk
Ls-tan-offwhite-brn-fn xln fossil
Sh-Sltstn
Ls-tan-fn xln-fossil-tends pr interpart ɸ-stain
Sh-gry-grn-red
Ls-tan-fn xln-fossil
Sh-Sltstn-red-gry-grn
Ls-tan-offwhite-fn xln-fossil pr interpart ɸ-sl stain
Mud Vis.-51 Y.P.-15 Wt-8.8 Chl.-3K WL-8.8 Lcm-tr.
Ls-tan-fn.xln fossil w/ poor interpart ɸ & shell stn ɸ sl.chalky pyrite
Sh & sltst-gry-brn.
Ls-offwh-fn.xln. w/ poor interxln ɸ oil st-sat. SFO. sl. odor
Sh-dark gry
Mud Vis.-52 Wt.-8.9
Sh & sltst-gry-brn.
Ls-offwh-tan-fn.xln w/ fr. vuggy ɸ oil st, SFO,
Sh & sltst-gry-brn.
DST #1 LKC C-G 3096-3180' 30"-45"-60"-90" 240' G.I.P. 45' Oil 110' H.O.C.Mud F.P. 54-84 90-112# S.I.P. 413-412#
Strap 1.65' Long dev ½°
Ls-offwh-fn.xln. ool. fossil w/ poor inter part. ɸ oil st. in ɸ sl. chalky, pyrite
Ls-tan fn.xln. ool w/ fr. inter part. ɸ oil st-sat. SFO, fr. odor
Ls-tan-fn.xln. sl. △
Sh-dark gry.
Sh & sltst-brn-gry.
Ls-offwh-tan.gry-fn.xln. sl.chalky pyrite
Sh & sltst-gry-brn.
Ls-offwh-lt gry-fn.xln. sl. fossil w/ poor-fr. interxln & pp vuggy ɸ oil st-sat.
Sh & sltst-gry-brn.
Ls-offwh-tan-lt gry-fn.xln fossil, ool w/ poor-fr interpart. ɸ oil st-sat-SFO, fr. odor
Mud Vis-48 Y.P.-14 Wt. 9.0 Chl-6K WL-10.4 Lcm-tr.
Sh-blk, carb, fissile
DST #2 LKC I-L 3218-3310' 30"-45"-60"-90" 70' O Sp. Mud F.P. 30-66 68-79# S.I.P. 985-972#
Sh & sltst-gry-brn-grn.
Ls-offwh-tan-fn.xln. fossil w/ poor interpart. ɸ oil st. in ɸ sl.chalky
Sh-blk
Sh & sltst-gry-brn.
Ls-offwh-tan-vfn-fn.xln. sl. △ sl. chalky
Sh & sltst-gry-brn-
Ls-tan-gry-fn.xln. fossil sl. △ w/ poor interpart ɸ oil st. in ɸ
Sh & sltst-gry-brn-grn.
Ls-tan-lt gry-fn.xln. △
Mud Vis.-52 Wt.-9.0
Sh & sltst-gry-brn.
Ls-tan-gry-fn.xln. fossil, sl. △
Ls a/a
Sh & sltst-gry-brn-grn-maroon
▽, △, ss, Ls, pyrite & sltst-red
ss-qtz clear med gr. well worked fr. ɸ oil st-sat. SFO
▽, △ a/a
▽, △ a/a
Sh & sltst-red-brn-grn-gry
▽, △ multicolor, w/ brn sh.
sh-brn-gry
Mud Vis.-60 Wt.-9.1
Ls-brn-gry-fn.xln. △
Sh & sltst-brn-red-gry.
~~Sh-grn-waxy soft~~
Ls-dolo-tan-brn-fn.xln.
Sh & sltst-grn. waxy soft. sandy.
Dolo-tan-fn.xln. barren
Dolo a/a
Dolo-tan-brn-fn-med xln barren sl. △
Dolo a/a
Mud Vis.-55 Y.P.-15 Wt.-9.0 Chl.-6K WL-10.8 Lcm-tr.

RANDALL KILIAN
224
10-15-08

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