Randall Kilian
Geologist

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GEOLOGIST'S WELL REPORT

COMPANY ESP DEVELOPMENT, INC. (6194)

WELL Hagaman #1

FIELD Hagaman North (Wildcat per seismic)

LOCATION (legal) Ap. N½ SW SW (1075' FSL & 4515' FEL)
Section 27 TWP 11 S RGE 15 W

(Map) 4 mi E & 1 mi N of Fairport, Ks.

COUNTY Russell STATE Kansas

ELEVATION: 1828' K.B., 1823' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-167-23229

GEOLOGY BY Randall Kilian
Matt Dreiling

PERTINENT WELL DATA

CONTRACTOR Vonfeldt Drilling, Inc. (9431)
(Doug Budig T.P.)
RIG #1 HYDRAULICS Upetron 6x14x60

DRILL PIPE 4 ½" X-H COLLARS X-H 14 (472')

CASING: SURFACE 8 5/8" @ 212' w/ 150 sx 60/40 Poz

PRODUCTION 5 ½" @ 3374' w/ 150 sx ASC
DV @ 905' w/ 300 sx 60/40 Poz & gel

DRILLING FLUID: COMPANY Andy's Mud & Chemical Co.
(Andy Werth)

TYPE: Chemical & Drispac

REMARKS: Full-Service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.
(John J. Schmidt)

NUMBER OF TESTS Four (4)

ELECTIC LOGS: COMPANY ELI Wireline Service, Inc.

DETAIL (5") 2600' - RTD

TYPE Comp N-D, Dual, Micro

DRILLING TIME FROM 2600' TO RTD

SAMPLE TIME FROM 2600' TO RTD

SUPERVISION FROM 2600' TO RTD

VERTICAL DEVIATION ¼° @ 212', 3/4° @ 3006',

PLUGGING REPORT 15 sx Rat, 10 sx Mouse

RESERVE PIT 400 bbls., Chl. 56,000, Ca. 1800

DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
5-07-03		MIRU, Spud
5-08-03	212'	WOC
5-09-03	1692'	Drilling shale
5-10-03	2369'	Drilling lime & shale
5-11-03	2920'	Drilling lime & shale
5-12-03	3035'	DST #2 LKc "D"
5-13-03	3200'	DST #3 LKc "J-K"
5-14-03	3303'	DST #4 Arbuckle
5-15-03	3377'	T.D. Running 5½" casing

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
2	LKc D 3012-3035'	14# 20# 30"	46# 30"	20# 34# 60"	47# 60"	1446# 1407#	380' GIP 50' H,O,G,W,C,Mud
1	LKc A-D 2954-3006'	18# 51# 30"	475#	54# 83# 30"	465# 60"	1421# 1394#	75' GIP 90' Mud w/ S.O. 60' M,WCC.
3	LKc J-K 3145-3200'	16# 29# 30"	570#	29# 53# 60"	603#	1532# 1492#	350' GIP 90' O,G,Mud 30% oil
4	Arb. 3282-3303'	20# 71# 30"	902#	76# 145# 60"	879# 90"	1613# 1563#	325' G,Oil gravity 28°
5							
6							
7							
8							

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP	
1	2524'						Displaced
2	2600'	8.7	52				
3	2700'	8.8	49				
4	2800'	8.9	51				
5	2947'	9.0	52	7.2	6k	15	LCM tr.
6	3035'	9.1	42	7.2	11k	14	LCM tr.
7	3085'	9.0	40				
8	3200'	9.2	49	8.0	11k	15	LCM tr.
9	3303'	9.3	42	8.8	12k	14	LCM tr. $3480
10							
11							

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTHOUT	FEET	HOURS
1	12 ¼"	Sec.	M	212'	212'	3 ½
2	7 7/8"	JZ	517 Y	3200'	2988'	82 ¼
3	7 7/8"	JZ	517 Y	3377'	177'	9 ½
4						
5						
6						
7						

FORMATION TOPS & STRUCTURAL GEOLOGY

REFERRED TO:
FRONTIER OIL CO.
Abbott #1 NE NW SW 27

A:
B:
C:
D:
E:

STRATIGRAPHIC MARKERS	SUBJECT WELL SAMPLE	E. LOG	STRUCTURAL POSITION DATUM	A	B	C	D	E
Anhydrite	901'	900'	+ 928					
Base	935'	937'	+ 891					
Topeka	2670'	2670'	- 842					
Heeb. Sh.	2923'	2921'	-1093					
Toronto	2943'	2940'	-1112					
Lansing	2973'	2973'	-1145					
Base Kc.	3225'	3227'	-1399					
Arbuckle	3286'	3284'	-1456					
T.D.	3377'	3377'	-1549					

Pipe strap 1.49' short

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

SUMMARY

The Hagaman #1 well was drilled with Vonfeldt Drilling Inc. tools rig #1 beginning May 7, and drilling was completed on May 15, 2003.

The well was located via 3-D seismic data. The well ran high structurally to the key well by 3-6'. Small tests were taken over several LKc zones that will contribute to overall production. DST #4 over the upper Arbuckle is a good test for the area.

Based upon all data, casing was set and cemented to further test and produce the well. Recommended perfs: Arb. 3287-3306', LKc K 3189-92', J 3161-66', D 3015-19', A 2973-76', Top. 30' 2701-06'.

Respectfully,

Randy

Randall Kilian

RANDALL KILIAN
LICENSED
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5-14-03
KANSAS
GEOLOGIST