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GEOLOGIST'S WELL REPORT

COMPANY ESP DEVELOPMENT, INC. (6194)
WELL Eulert East #2
FIELD Eulert East (Wildcat per seismic)
LOCATION (legal) Ap. NW SE NE (3680' FSL & 930' FEL)
Section 35 TWP 11 S RGE 15 W
(Map) 5½ mi E & 1 mi North of Fairport
COUNTY Russell STATE Kansas
ELEVATION: 1821' K.B., 1816' G.L.
Depths measured from Kelly Bushing
A. P. I. NUMBER 15-167-23245
GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Vonfeldt Drilling, Inc. (9431)
RIG #1 (Doug Budig T.P.) HYDRAULICS Uptron 6x14x60
DRILL PIPE 4½" X-H COLLARS X-H 14 (434')
CASING: SURFACE 8 5/8" @ 218' w/ 150 sx Common
PRODUCTION 5½" @ 3285' w/ 150 sx ASC P.C. @ 890'
DRILLING FLUID: COMPANY Andy's Mud & Chemical Co. (Andy Werth, The Mud Dr.)
TYPE: Chemical & Drispac
REMARKS: Full-Service
DRILL STEM TESTS: COMPANY Trilobite Testing Inc. (Dan Bangle)
NUMBER OF TESTS Four (4)
ELECTIC LOGS: COMPANY ELI Wireline Services
DETAIL (5") 2600' - RTD
TYPE Micro
DRILLING TIME FROM 2600' TO RTD
SAMPLE TIME FROM 2600' TO RTD
SUPERVISION FROM 2600' TO RTD
VERTICAL DEVIATION 3/4° @ 218',
PLUGGING REPORT 15 sx Rat, 10 sx Mouse
RESERVE PIT 500 bbls, Chl. 58,000 Ca. 2400

DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
2-07-04		MIRU, Spud
2-08-04	218'	WOC
2-09-04	1338'	Drilling sand & shale
2-10-04	2200'	Drilling shale
2-11-04	2765'	Drilling shale & lime
2-12-04	3028'	DST #1 LKc "D"
2-13-04	3106'	Drilling lime & shale
2-14-04	3288'	DST #3 Arbuckle
2-15-04	3293'	TD, Logging, Run casing

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	LKc D 3009- 3028'	25# 32# 30"	196# 30"	37# 56# 60"	198# 60"	1568# 1527#	1240' GIP 90' M,Wtr 83k
2	LKc E-G 3037- 3085'	- - 30"	349# 30"	- - 30"	342# 45"	1577# 1546#	30' Mud Plugging
3	Arb. 3251- 3288'	19# 20# 30"	142# 45"	20# 34# 60"	156# 90"	1719# 1650#	10' Mud w/ so
4	Arb. 3251- 3293'	26# 32# 30"	486# 45"	35# 45# 60"	511# 90"	1760# 1648#	60' H,O&G,C,Mud 30% Oil
5							
6							
7							
8							

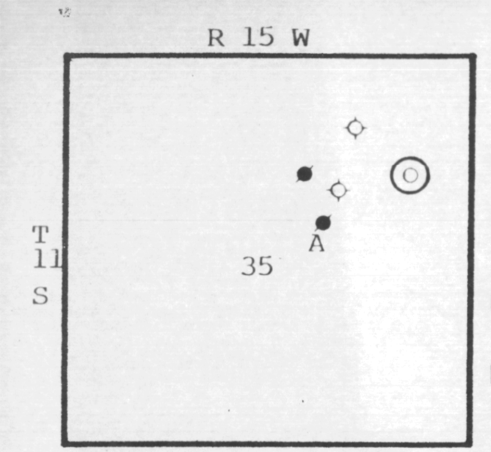
MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP	
1	2271'						Displace
2	2797'	9.4	46	8.8	5k	15	LCM tr.
3	2940'	9.4	48				
4	3028'	9.6	49	12.	6k	19	LCM tr.
5	3127'	9.3	45	8.8	6.5k	15	LCM ¼#
6	3205'	9.3	48				
7	3293'	9.5	48	9.6	12.k	17	LCM ¼# $6617
8							
9							
10							
11							

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTHOUT	FEET	HOURS
1	12¼"	JZ	RR	218'	218'	6 ¼
2	7 7/8"	JZ	HA527Y	3293'	3075'	85 ½
3						
4						
5						
6						
7						

FORMATION TOPS & STRUCTURAL GEOLOGY



REFERRED TO:
A: Anschutz Drilling Co. Eulert B #2 S½ SW NE 35
B:
C:
D:
E:

STRATIGRAPHIC MARKERS	SUBJECT WELL SAMPLE	SUBJECT WELL E. LOG	DATUM	STRUCTURAL POSITION A	B	C	D	E
Anhydrite	880'	882'	+ 939					
Base	921'	923'	+ 898					
Topeka	2666'	2669'	- 848	- 845				
Heeb. Sh.	2920'	2921'	-1100	-1102				
Toronto	2946'	2942'	-1121	-1123				
Lansing	2972'	2974'	-1153	-1156				
Stark Sh.	3176'	3178'	-1357	-1357				
BKc.	3230'	3232'	-1411	-1411				
Arbuckle	3283'	3285'	-1464	-1462				
TD	3293'	3293'	-1472	-1468				

Pipe strap .60' long.

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

SUMMARY

The Eulert East #2 well was drilled with Vonfeldt Drilling, Inc. tools rig #1 beginning 2-7-04 and drilling was completed 2-15-04.

The drillsite was located via 3-D seismic along with other technical data. The well ran high to the ESP Eulert East #1 about 2 locations west. The well was structurally near many of the flank wells in the Eulert Field.

Two DST's were run in the LKc with questionable results. These intervals should be tested before abandoning. The two Arbuckle DST's were normal for the area.

Based upon all data, production casing was set and cemented to further test and produce the well.

Recommended zones: upper Arbuckle, open hole may
require 1000-3000 gallons acid under
high pressure to break the zone down,
LKc. K 3191-94', G 3075-80', F 3066-69',
D 3015-21', C 3001-05', Toronto 2945-47'.

Respectfully,

Randy
Randall Kilian

geo on loc. 2-10-04 9:00pm.

Sh & sltst-gry-brn.
Sh & sltst ala, sl. sandy
Sh & sltst gry-brn-grn.
Ls-buff-brn-gry-fn.xln. fossil, Sl. chalky
Sh & sltst-gry-brn-
Ls-buff-brn-gry-fn.xln. fossil.
Ls ala
Sh & sltst-gry-brn-grn.
Dolo-buff-fn.xln. w/ poor-fr. interxln. ø oil st-sat GSFO, good odor.
Ls-buff-brn-gry-fn.xln. fossil.
Sh. dark gry
Sh & sltst-gry-brn.
Ls-buff-brn-gry-fn.xln. fossil Sl. chalky
Ls ala
Ls-buff-brn-fn.xln. fossil,
Ls ala
Sh. dark gry.
Sh & sltst-gry-brn-soft.

Mud Vis-46 Y.P.-15 Wt-9.4 Chl-5K WL-8.8 LCM-tr.

Ls-buff-brn-fn.xln. fossil w/ poor-fr interpart ø oil st- sl. odor.
Ls-buff-brn-gry-fn.xln. fossil, Sl. chalky
Sh & sltst-gry-brn
Ls-buff-brn-gry-fn.xln. fossil, chalky
Sh. dark gry.
Sh & sltst-gry-brn.
Ls-buff-brn-gry-fn.xln. fossil
Ls-offwh-buff-brn-gry-fn.xln. fossil, chalky w/ poor inter-part ø & oil st sat GSFO sl. odor
Sh & sltst-gry-brn-soft.
Ls-offwh-buff-fn.xln. sl. chalky
Ls-ala
Sh. blk, carb, fissile
Ls-brn-fn.xln.
Sh & sltst-gry-brn-grn, soft

Mud Vis-48 Wt-9.4

Ls-buff-brn-gry-fn.xln. fossil w/ poor interpart. ø sl. oil st. in ø. sl. △
Sh & sltst-gry-brn-grn-soft.
Ls-buff-brn-fn.xln. fossil, sl. chalky
Sh & sltst-gry-brn soft
Ls-buff-brn-fn.xln. chalky
Sh & sltst-gry-brn.

DST #1 LKc 'D'
3009-28
30"30"60"60"
1240 G.I.P.
90 M. Wtr. 83K
F.P. 25-32, 37-56#
S.I.P. 196-198#
#1

Ls-offwh-ool fossil pkst w/ tr. interpart & oom ø oil st. in ø sl. odor
Sh & sltst-gry-brn.

Mud Vis-49 Y.P.-19 Wt-9.6 Chl.-6k WL-12.0 LCM-tr.

Ls-gry-ool pkst w/ good inter-oo & oom ø oil st-sat. GSFO fr. odor
Ls-offwh-buff-fn.xln. sl. fossil, sl. △, sl. chalky
Sh-dark gry.
Sh & sltst-gry-brn-soft.

DST #2 LKc E-G
3037-85'
30"30"30"46"
30' Mud
F.P. - plugging
S.I.P. -349-342#

Ls-offwh-buff-fn.xln. fossil, sl. chalky.
Sh & sltst, gry-brn-grn-soft
Ls-offwh-buff-fn.xln. ool fossil w/ poor-fr interpart. ø oil st-sat sl. chalky
Sh-gry.
Ls-offwh-fn.xln. ool-fossil w/ fr-good interpart. & oom ø oil st. sat. parts barren, SFO, fr. odor!

pipe strap .60 Long.

Ls-offwh-buff-fn.xln. fossil, sl. △, sl. chalky
Sh-dark gry.
Sh & sltst-gry-brn.
Ls-buff-brn-fn.xln. sl. fossil, sl. △, sl. chalky
Sh & sltst-gry-brn-grn

Mud Vis-45 Y.P.-15 Wt-9.3 Chl-6.5K WL-8.8 LCM-¼#

Ls-offwh-ltgry-fn.xln. fossil, sl. chalky
Sh & sltst-gry-brn-soft
Ls-offwh-buff-ltgry-fn.xln. fossil, sl. chalky, sl. △
Ls ala
Sh-dark gry-blk.
Sh & sltst-gry-brn-grn-soft
Ls-offwh-fossil, ool pkst-w/ poor interp. ø oil st-sat SFO. sl. odor
Sh. blk.

Mud Vis-48 Wt-9.3

Sh & sltst-gry-brn-grn-soft.

DST #3 Arb.
3251-88'
30"45"60"90"
10' Mud w/ S.O.
F.P. 13-23, 20-34#
S.I.P. 142-156#
#3

Ls-offwh-buff-brn-fn.xln △, chalky
Sh & sltst-gry-brn-red-grn, soft
Ls-buff-brn-ltgry-fn.xln. fossil sl. △, sl. chalky
Sh & sltst-gry-brn-grn-soft.
Ls-buff-brn-ltgry-fn.xln. sl. △
Sh & sltst-gry-brn-red-grn.
Ls-buff-brn-fn.xln. fossil.

Mud Vis-46 Wt-9.3

Sh-grn-waxy.
Dolo-buff-fn.xln. w/ poor interxln. ø oil st-sat. SFO. sl. odor
Dolo-buff-fn-med xln. w/ poor-fr interxln ø oil st-sat GSFO, Good odor.

DST #4 Arb.
3251-93'
30"45"60"90"
60' HO&GCMud
F.P. 26-32, 35-45#
S.I.P. 486-511#

Mud Vis-48 Y.P.-17 Wt-9.5 Chl-12K WL-9.6 LCM-¼#
#4

RANDALL KILIAN
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2-15-04