DRILLERS LOG

API NO: 15 - 001 - 30829 - 00 - 00

OPERATOR: COLT ENERGY, INC

ADDRESS: P.O. BOX 388, IOLA, KS 66749

WELL #: KE - 3 LEASE NAME: KNOBLE

S. 4 T. 24 R. 18 E. W.

LOCATION: SE NW SW SW

COUNTY: ALLEN

ELEV. GR.: 1010

DF: KB:

FOOTAGE LOCATION: 935 FEET FROM (N) (S) LINE 495 FEET FROM (E) (W) LINE

CONTRACTOR: FINNEY DRILLING COMPANY

GEOLOGIST: JIM STEGMAN

SPUD DATE: 4/29/2014

TOTAL DEPTH: 1092 P.B.T.D.

DATE COMPLETED: 5/2/2014

OIL PURCHASER: COFFEYVILLE RESOURCES CRUDE TRANSPORTATION

CASING RECORD

REPORT OF ALL STRINGS - SURFACE, INTERMEDIATE, PRODUCTION, ETC.

PURPOSE OF STRING	SIZE HOLE DRILLED	SIZE CASING SET (in O.D.)	WEIGHT LBS/FT	SETTING DEPTH	TYPE CEMENT	SACKS	TYPE AND % ADDITIVES
SURFACE:	12.2500	8 5/8 6250	22	21.40	PORTLAND	10	SERVICE COMPANY
PRODUCTION:	6.7500	4.5	10 5	1073	OWC	155	SERVICE COMPANY

WELL LOG

CORES: # 1 - 960 - 975

RECOVERED:

ACTUAL CORING TIME:

RAN: 3 - CENTRALIZERS
1 - 5ft FLOAT SHOE
1 - CLAMP

FORMATION	TOP	BOTTOM
TOP SOIL	0	2
CLAY	2	4
SHALE & LIME	4	53
SHALE	53	54
LIME	54	64
SHALE	64	132
LIME	132	135
SHALE	135	136
LIME	136	181
SHALE	181	189
LIME	189	193
SHALE	193	265
LIME	265	321
SHALE	321	326
LIME	326	350
SHALE	350	355
LIME	355	374
SHALE	374	424
SAND & SHALE	424	515
LIME	515	519
SAND & SHALE	519	547
LIME	547	550
SAND & SHALE	550	569
LIME	569	571
SAND & SHALE	571	574
LIME	574	580
SHALE	580	582
LIME	582	584
SHALE	584	585
LIME	585	586
SHALE	586	619
LIME	619	621
SAND & SHALE	621	641
LIME	640	642
SHALE	642	649
LIME	649	651
LIME & SHALE	651	658
LIME	658	661
SHALE	661	663
LIME	663	671
SHALE	671	674
LIME	674	686

FORMATION	TOP	BOTTOM
SHALE	686	721
SHALE	721	727
LIME	727	730
BLACK SHALE	730	734
SAND & SHALE	734	764
LIME	764	766
SHALE	766	788
LIME	788	790
SHALE	790	856
SAND & SHALE	856	899
SHALE	899	946
SAND & SHALE	946	956
SAND & SHALE ODOR	956	960
OIL SAND	960	970
WATER SAND	970	1092 T.D.