

DRILLING THE AND SURE LOG

OPERATOR: Cobalt Energy LLC
LEASE: Stark #1 Well No. 1-18
FIELD: G-B West
LOCATION: 12.021564, 100.525486
SEC.: 18 T1P: 11S R4E26W
COUNTY: Garfield STATE: OKLA
API NO.: 15-003-22155-00-00
CONTRACT: Murbair 22155-00-00
DRILLER: Murbair 22155-00-00
WELL NO.: 4615' LOG TOTAL DEPTH: 4620'
LOG DEPTH: 3301' LOG TYPE: Chemical Polymer
FORMATION:

Strata	150'	150'	150'	150'	150'
Substrata	150'	150'	150'	150'	150'
Strata	150'	150'	150'	150'	150'
Substrata	150'	150'	150'	150'	150'

DST # 1 ZONE: Lansing-K.S. City 'H' 'I' Zones Interval: 4068-4130' Chart: 6626 Depth: 4106'

Pressures:	Times	Pross.	RECOVERY
1. Initial Hydrostatic		2138 psi	5' Oil Spotted
2. Initial Flow: Start	0	39 psi	Muddy Water
3. Initial Flow: End	30	53 psi	10% Water, 90% Mud
4. Initial Shut-in: End	60	1296 psi	Blow Desc.
5. Final Flow: Start	0	54 psi	I.R. built to 1/8"
6. Final Flow: End	30	65 psi	I.S.I.-No blow
7. Final Shut-in: End	30	1258 psi	F.F.-No blow
8. Final Hydrostatic		2018 psi	F.S.I.-No blow

BHT: 119°F
Rv: .31 @ 59°F
Chlorides 26,000 ppm

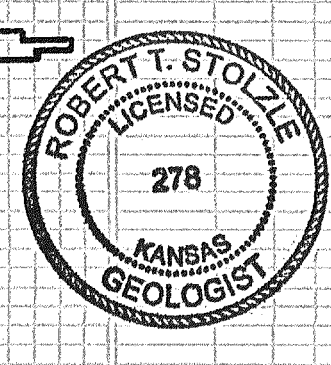
DST # 2 ZONE: Ft. Scott Ls. Interval: 4385-4440' Chart: 6625 Depth: 4421'

Pressures:	Times	Pross.	RECOVERY
1. Initial Hydrostatic		2243 psi	3' Drilling Mud
2. Initial Flow: Start	0	58 psi	with some Oil
3. Initial Flow: End	30	78 psi	(100% Mud)
4. Initial Shut-in: End	60	288 psi	Blow Desc.
5. Final Flow: Start	0	37 psi	I.F.-1' died to 1/4"
6. Final Flow: End	30	36 psi	I.S.I.-No blow
7. Final Shut-in: End	30	52 psi	F.F.-No blow
8. Final Hydrostatic		2187 psi	F.S.I.-No blow

BHT: 123°F
Rv: .

ABBREVIATIONS USED

ROCK TYPES:	FACIES:	MODIFIERS:
ls - limestone	fn - fine grained	gd - good
sl - shale	vfg - very fine grained	po - poor
slt - siltstone	med - medium	pr - excellent
cl - claystone	co - coarse	v - very
cc - calcarenite	dt - dolomite	br - brackish
cs - calcarenite	cr - crystalline	br - brackish
cl - claystone	cr - crystalline	br - brackish
cl - claystone	cr - crystalline	br - brackish
cl - claystone	cr - crystalline	br - brackish
cl - claystone	cr - crystalline	br - brackish



D.T.D. 4615' L.T.D. 4620' Revisited 11/30/13