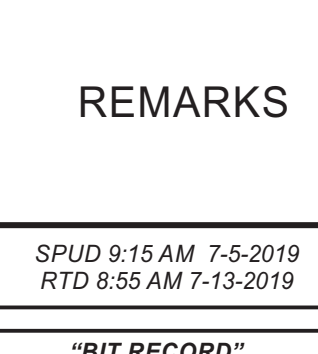


GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY	Shakespeare Oil Co., Inc	ELEVATIONS	KB 3153'
LEASE	Aldag #1-20	DF	
FIELD	Wildcat	GL	3144'
LOCATION	870 FNL, 550' FEL, NE/4	Measurements Are All	From 3153' KB
SEC	20	TWSP	16s RGE 34w
COUNTY	Scott	STATE	Kans
CONTRACTOR	Duke Drilling Rig #4	CASING	CONDUCTOR SURFACE 8 5/8" @ 264' PRODUCTION None
SPUD	7-5-2019	COMP	7-13-2019
RTD	4900'	LT D	4894'
MUD UP	3500'	TYPE MUD	Chemical
SAMPLES SAVED FROM	3700 TO RTD	ELECTRICAL SURVEYS	Pioneer Stack - Sonic, DCP/L, DIL, ML Engr. Justin Hennickson
DRILLING TIME KEPT FROM	3700 TO RTD		
SAMPLES EXAMINED FROM	3700 TO RTD		
GEOLOGICAL SUPERVISION FROM	3845 RTD		
GEOLOGIST ON WELL	Tim J. Lauer		

FORMATION TOP	ELECTRIC LOG	SAMPLE LOG
Anhydrite	2462 (+691)	2468 (+685)
Heebner	4004 (-851)	4010 (-857)
Lansing	4046 (-893)	4051 (-898)
Muncie Creek	4232 (-1079)	4242 (-1089)
Stark	4494 (-1331)	4498 (-1335)
Marmaton	4633 (-1480)	4639 (-1486)
Cherokee Shale	4675 (-1522)	4680 (-1527)
Johnson Zone	4820 (-1667)	4824 (-1671)
Mississippian	4894 (-1741)	4900 (-1747)
Total Depth		



REMARKS Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location without any further testing.

*Note: Error on Board resulting in all rotary meas. to be moved uphole 6 ft to match log measurements. Strap and Re-strap confirm. LT D 6" shallow to RTD. Move DST measurements and Tops up hole 6 feet to match Ellog.

Respectfully submitted,
 [Signature]
 Tim J. Lauer
 7/14/2019

Lat: 38.653856698
 Long: 101.093712673
 NAD 83
 API: 15-171-21,254-00-00

DEPTH	SAMPLE DESCRIPTION	REMARKS
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2450
 RTD 9:15 AM 7-5-2019
 RTD 8:55 AM 7-13-2019

"BIT RECORD"
 1) Smith FH24Y (New)
 Under Surface to 4900' RTD

"VERTICAL SURVEYS"
 1/4" @ 264'
 0" @ 948'
 3/4" @ 1973'
 3/4" @ 2471'
 3/4" @ 2971'
 1/4" @ 3563'
 3/4" @ 4560'
 1" @ 4900'

"DAILY ACTIVITY REPORT"
 7-5-2019 - 7:00 AM
 Prep to Spud
 7-6-2019 - 7:00 AM
 Drig @ 780'
 set 9-8' @ 264'
 7-7-2019 - 7:00 AM
 Drig @ 2180'
 7-8-2019 - 7:00 AM
 Drig @ 3045'
 7-9-2019 - 7:00 AM
 Drig @ 3584'

7-10-2019 - 7:00 AM
 Drig @ 4160'
 7-11-2019 - 7:00 AM
 Drig @ 4554'

7-12-2019 - 7:00 AM
 CFS @ 4600'
 7-13-2019 - 7:00 AM
 Drig @ 4875'
 7-14-2019 - 7:00 AM
 RTD @ 4900'
 Ran OH Pioneer Ellogs
 Plug and Abd location

Call Point 3550'
 12:00 AM 8.9.2019
 Rig down for 7.5 hours
 working on pump at 3584'

Geologist on location 3845'
 5:30 PM 7-9-2019
 Rig Check:
 vis: 52 wt 9.0 LCM: 1#

Rig Check:
 vis: 51 wt 8.9 LCM: 1#

Rig Check:
 vis: 51 wt 8.9 LCM: 1#

Rig Check:
 vis: 59 wt 9.2 LCM: 1#

Mud Check at 4183:
 LCM: 57 wt 9.3 Chlor: 2,000
 LCM: 1# Ph: 11.0 WL: 7.2

Rig Check:
 vis: 59 wt 9.2 LCM: 1#

Mud Check at 4560 before DST:
 vis: 53 wt 9.3 Chlor: 3,000
 no blowback on ISIP:
 no blow on FFP:
 35 Stand Short Trip at 4560'
 Pulled 30-50 over on
 stands 2 through 17

Pipe Strap on DST (1):
 Board: 4585.53'
 Strap: 4578.60'
 Diff: 6.93' short

DST (1) 4440' - 4560'
 30-30-30-30
 Blow: weak 1/2" bleed in 19 min on IFP,
 no blowback on ISIP:
 no blow on FFP:
 0% Mud, Oil spots in tool
 DST: NA
 IHP: 2311 FFP: 32-30
 IHP: 30-31 FSP: 355'
 ISIP: 424' FHP: 2174
 Temp: 114F
 Chlorides: 3,000 PPM
 DST: NA
 Rst: NA
 *Notes: Both Shale curves still bleed,
 straight line curves, no breakover
 FFP shows minor plugging action.

Mud Check at 4602:
 vis: 53 wt 9.2 Chlor: 3,200
 LCM: 1# Ph: 10.5 WL: 8.8

Mud Check at 4879:
 vis: 53 wt 9.2 Chlor: 3,000
 LCM: 2# Ph: 11.5 WL: 6.4

RTD 4900' 8:55 AM 7-13-2019
 Pipe Strap at RTD
 Board: 4925.07'
 Strap: 4921.03'
 Diff: 4.04' short

COMPANY & WELL Shakespeare Oil #1-20 Aldag
 LOCATION 870' FNL, 550' FEL, NE (NW SE NE NE)
 SEC 20 TWSP 16s RGE 34w
 COUNTY Scott STATE Ks

ELEVATIONS KB 3153' GL 3144'

