COMPANY: John Roy Evans Oil Company LLC

LEASE: DEMEL #3

FIELD: Kraft-Prusa

LOCATION: Nw-Se-Nw-Ne (910 FNL & 1815' FEL)

SEC: 6 TWSP: 17s RGE: 11w

COUNTY: Barton STATE: Kansas

KB: 1883 GL: 1876

API # 15-009-25948-00-00

CONTRACTOR: Royal Drilling (rig #2)

Spud: <u>02/28/2014</u> Comp: <u>03/06/2014</u>

RTD: 3400' LTD: 3400'

Mud Up: 2660 Type Mud: Chemical was displaced

Samples Saved From: 2800' to RTD

Drilling Time Kept From: 2800' to RTD

Samples Examined From: 2800' to RTD

Geological Supervision From: 2800' to RTD

Geologist on Well: Wyatt Urban & Josh Austin

Surface Casing: 8 5/8" @ 752'
Production Casing: 5 1/2" @

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the positive drill stem test and after reviewing the electric logs, it was recommended by all parties involved in the Demel #3 to run 5 1/2" production casing at the rotary total depth 3400'.

Correction: Pipe was straped after DST #1 and found to be 30' off. All drill time and sample tops were corrected.

John Roy Evans Oil Company LLC well comparison sheet

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Demel #3				Demel #2				Demel #1			
					s/2-Sw-Nw-Ne				Nw-Ne-Ne			
							Struct	ural			Struct	ural
	1883	KB			1876 KB		Relationship		1895 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anyhidrite					737	1139	1139					
Heebner	2959	-1076	2954	-1071	2949	-1073	-3	2	2962	-1067	-9	-4
Toronto	2974	-1091	2970	-1087	2965	-1089	-2	2	2980	-1085	-6	-2
Douglas	2986	-1103	2982	-1099	2977	-1101	-2	2	2991	-1096	-7	-3
Brown Lime	3058	-1175	3054	-1171	3048	-1172	-3	1	3065	-1170	-5	-1
Lansing	3074	-1191	3068	-1185	3066	-1190	-1	5	3081	-1186	-5	1
Base KC	3321	-1438	3318	-1435	3309	-1433	-5	-2	3314	-1419	-19	-16
Conglomerate	3329	-1446	3323	-1440	3320	-1444	-2	4	3318	-1423	-23	-17
Arbuckle	3360	-1477	3358	-1475	3331	-1455	-22	-20			50	
Total Depth	3400	-1517	3374	-1491	3600	-1724			3420	-1525		



DIAMOND TESTING TIME ON: 00:01 3/5/2014 P.O. Box 157 HOISINGTON, KANSAS 67544 TIME OFF: 05:10 3/5/2014 (800) 542-7313 DRILL-STEM TEST TICKET FILE: STC/Demel3dst1 Company JOHN ROY EVANS Lease & Well No. DEMEL #3 Contractor ROYAL DRILLING RIG #2 Charge to JOHN ROY EVANS UPPER LANSING Effective Pay___ j3192 Elevation Formation Ft. Ticket No. 3/05/14 Sec. BARTON State KANSAS 17 S Range 11 W County Test Approved By GARY KIRMER JOHN RIEDL Diamond Representative 3113 ft. Total Depth___ 3058 ft. to 3113 ft. Interval Tested from Formation Test No. 3053 ft. Size 6 3/4 Packer depth ft. Size 6 3/4 Packer Depth 3058 ft. Size 6 3/4 ft. Size 6 3/4 Packer Depth Packer depth____ Depth of Selective Zone Set 3061 ft. 6000 P.S.I. 30046 Cap. Top Recorder Depth (Inside) Recorder Number 6000 P.S.I. 3110 ft 13498 Cap. Bottom Recorder Depth (Outside) Recorder Number P.S.I. Below Straddle Recorder Depth Recorder Number Cap. 59 CHEMICAL Viscosity 0 ft. I.D. 2 1/4 Mud Type Drill Collar Length 7.6 0 ft. I.D. 2 7/8 Weight Water Loss cc. Weight Pipe Length_ 5,400 P.P.M. 3038 ft. I.D. 3 1/2 Chlorides Drill Pipe Length STERLING Serial Number NOT REQUESTED 20 ft. Tool Size 3 1/2-IF Jars: Make Test Tool Length ___Reversed Out____ NO Did Well Flow? 55 ft. Size Anchor Length 4 1/2-FH Main Hole Size 7 7/8 4 1/2 XH in. Surface Choke Size___ Tool Joint Size in. Bottom Choke Size 5/8 Blow: 1st Open: VERY WEAK DEAD IN 20 MINUTES 2nd Open: VERY WEAK DEAD IN10 MINUTES: FLUSHED TOOL AND RECEIVED SHORT SURGE 15 ft of DRILLING MUD JOHN MOY 5/ANS often Led Liste Ornality to-final Text Date: 2014/00/05 Recovered Recovered ft. of ft. of Recovered ft. of Recovered Recovered

TOOL SAMPLE GRI	NDOUT (100	%MUD)					1	2 - 18 M	£-4913
	•				***************************************	ESC.	UNC 130	110 200 200 200 2004 1100	X40 400 430 MIX
Time Set Packer(s)	1:35 A.M	A.M. P.M.	Time Starte	d Off Bott	tom	3:35 A.M	A.M. P.M.	Maximum Temp	perature 92
Initial Hydrostatic Pressu	ıre				(A)_		1462 p	.S.I.	
Initial Flow Period		Minute	es	30	(B)_		13 _P	.S.I. to (C)	16 P.S.I.
Initial Closed In Period		Minute	es	30	(D)_		30 P	.S.I.	
Final Flow Period		Minute	es	30	(E)_		19 _P	.S.I. to (F)	21 _{P.S.I.}
Final Closed In Period		Minute	es	30	(G)_		40 _P	.S.I.	
Final Hydrostatic Pressu	ire				(H)		1435 _P	S.L	

DIAMOND TESTING TIME ON: 23:45 3/5/2014 P.O. Box 157 HOISINGTON, KANSAS 67544 TIME OFF: 06:20 3/6/2014 (800) 542-7313 **DRILL-STEM TEST TICKET** FILE: STC/Demel3dst2 Company JOHN ROY EVANS Lease & Well No. DEMEL #3 Contractor ROYAL DRILLING RIG #2 Charge to JOHN ROY EVANS Formation CONGLOMERATE SAND Effective Pay j3193 Elevation Ft. Ticket No. State KANSAS 3/05/14 Sec. 6 Twp._____ 17 S Range 11 W County BARTON Date Test Approved By GARY KIRMER JOHN RIEDL Diamond Representative____ 2 Interval Tested from 3304 ft. to 3345 ft. Total Depth 3345 ft. Formation Test No. 3299 ft. Size 6 3/4 in. Packer depth____ ft. Size Packer Depth 3304 ft. Size 6 3/4 Packer Depth Packer depth 6 3/4 ft. Size Depth of Selective Zone Set 3307 ft. 30046 Cap.___ 6000 P.S.I. Top Recorder Depth (Inside) Recorder Number 3342 ft. 6000 P.S.I. 13498 Cap. Bottom Recorder Depth (Outside) Recorder Number Сар.____ Below Straddle Recorder Depth Recorder Number P.S.I. CHEMICAL Viscosity 0 ft. I.D. Mud Type Drill Collar Length 2 1/4 0 ft. I.D. 2 7/8 8 Water Loss____ Weight cc. Weight Pipe Length 6,000 P.P.M. 3284 ft. I.D. 3 1/2 Drill Pipe Length Chlorides STERLING __Serial Number__ NOT REQUESTED 20 ft. Tool Size 3 1/2-IF Jars: Make Test Tool Length NO Reversed Out NO Did Well Flow? 41 ft. Size 4 1/2-FH Anchor Length Main Hole Size 7 7/8 4 1/2 XH in. Surface Choke Size in. Bottom Choke Size 5/8 Tool Joint Size Blow: 1st Open:STRONG (B.O.B 4 MINUTES) NO BB 2nd Open: B.O.B 4 MINUTES) NO B 30 ft. of GIP Recovered DBMEL 10 Formation: CONG SD Job Number, JS193 JOHN ROY EVANO Star. Test Date: 2014/03/05 Final Feel Date: 2014/03/05 870 ft of W+MCO (25%WATER 25%MUD 50%OIL) Recovered 120 $_{\mathrm{ft.\,of}}$ VSLOCW (2%OIL 98%WATER) CHLORIDES 28,000Ppm Recovered ft. of Recovered Recovered 9 = 1015.25 Recovered ft. of TOTAL FILLID DEC-GGO! IN DOLL DIDE







