API #15-163-24245

Saman Sharifae
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR:	Ritchie Exploration, Inc.
LEASE:	Dreiling "D"
LOCATION:	SE - SE - NW - NW
	1320' FNL & 1320' FWL
	Section 15 - T12 - S R18 - W
	Ellis County, Kansas
CONTRACTOR:	Southwind Drilling, Inc. Rig #1
SPUD:	09/01/07
COMPLETED:	09/08/07
TOTAL DEPTH:	RTD 3688' (-1572')
CASING:	8 5/8" @ 312' w/ 175 sks Class "A"
	Production Casing Not Run
ELEVATION:	KB 2116'
	DF 2114'
	GL 2109'
ELECTRICAL SURVEY:	Trans Pacific Oil Corp.
	DUAL INDUCTION
	SIMULTANEOUS COMPENSATED DENSITY NEUTRON
	Dual Induction: 0 - 3688'
	Density Neutron: 2700' - 3688'
	Log Time: 1 Hour

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Respectfully Submitted,

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REMARKS: Due to her shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Operator Approval:	
Date:	

*Tops have been adjusted to electric logs.

Formation	Sample Top	Electric Log Top	Datum
Anhydrite	1086	(+420)	
Base Anhydrite	1127	(+380)	
Topeka	3080	(-962)	
Lansing-Kansas City	3270	(-1152)	
Stark Shale	3523	(-1405)	
Marmaton	3550	(-1432)	
Pawnee	3634	(-1516)	
Fort Scott	3664	(-1546)	
Cherokee Shale	3688	(-1570)	
Mississippian			
GEOLOGICAL SUPERVISION FROM	2700'		
DRILLING TIME KEPT FROM	3000'		
SAMPLES SAVED FROM	3000'		
DRILLING TIME KEPT BY	Geologist		
SAMPLES SAMPLED BY	Geologist		
TOOLS USED	NONE		
MUD TYPE	Chemical		
DRILLING TIME	1 Hour		
SAMPLES	Saved		
CONDITION OF HOLE	Good		
TOTAL DEPTH REACHED	Yes		

DAILY PENETRATION
@ 7:00 AM
09/01/07 - Spudded at 12:30 PM
09/02/07 - Drilling at 312'
09/03/07 - Drilling at 1037'
09/04/07 - Drilling at 2010'
09/05/07 - Drilling at 2700'
09/06/07 - Drilling at 3047'
09/07/07 - Drilling at 3557'
09/08/07 - Logging at 3688'

Dk. gray shale with pyrite, trace of limestone

Dk. gray shale

Lt. gray shale, tr. dk. gray shale, trace of limestone

Lt. gray to tan, fine crystalline limestone, trace of dk. gray shale

Lt. gray to tan, fine crystalline limestone, trace of dk. gray shale, trace of pyrite

Lt. gray to tan, fine crystalline limestone, trace of dk. gray shale, trace of pyrite

Lt. gray to tan, fine crystalline limestone, trace of dk. gray shale, trace of pyrite

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Lt. gray to tan, fine crystalline limestone, trace of dk. gray shale, trace of pyrite

Morgan Mud @ 3087
Wt: 8.8
Vis: 48
WL: 8.8
Ch: 1,200
LCM: 5#

DST #1
(Corrected - Dr. Reagan 5x5)
3529'-3560'
30-60-60-90
Fair Blow built to 21"
1st Blow built to 21"
Rec: 60' Mo (100%M)
IHP: 1650# (OPUM, TRCM)

FFP: 31 - 42
FSIP: 1041
IFP: 42 - 52
ISIP: 1041
FHP: 1641
BHT: 107°

Morgan Mud @ 3347
Wt: 9.0
Vis: 52
WL: 9.0
Ch: 1,500
LCM: 5#

Per Bmw @ 3349: 3.0' Shorts Black Sandstone Stump ?

DST #2
(LKC A-B)
3330'-3360'
30-45-30-60
Fair Blow built to 17"
1st Blow built to 17"
Rec: 1' CO (100%O)
IHP: 1650# (OPUM, SKCM)

FFP: 35 - 51
FSIP: 55 - 72
IFP: 35 - 51
ISIP: 1052
FHP: 1650
BHT: 107°

Morgan Mud @ 3510
Wt: 9.0
Vis: 52
WL: 7.2
Ch: 1,300
LCM: 5#

DST #3
(Corrected - Dr. Reagan 5x5)
3507'-3557'
30-60-30-60
Fair Blow built to 1"
1st Blow built to 1"
Rec: 1' MCO (20%O, 65%M)

FFP: 35 - 35
FSIP: 27 - 39
IFP: 27 - 35
ISIP: 27
FHP: 1649
BHT: 107°

Morgan Mud @ 3557
Wt: 9.0
Vis: 48
WL: 6.8
Ch: 1,300
LCM: 3#

DST #4
(Corrected - Dr. Reagan 5x5)
3537'-3557'
30-60-60-90
Fair Blow built to 9"
1st Blow built to 9"
Rec: 120' MO (20%M, 65%O)

FFP: 54 - 65
FSIP: 1041
IFP: 44 - 54
ISIP: 1052
FHP: 1633
BHT: 107°

Morgan Mud @ 3687
Wt: 9.0
Vis: 48
WL: 6.8
Ch: 1,300
LCM: 3#

DST #5
(L. Reagan 5x5)
3637'-3687'
15-45-15-30
IF: BOB immediately
FF: BOB in 5 minutes
Rec: 1,000' w. (100%W)
IHP: 1633#(TCM), 2(PUM, TRCM)

FFP: 475 - 672
FSIP: 716 - 883
IFP: 31 - 475
ISIP: 1042
FHP: 1633
BHT: 107°

Morgan Mud @ 3688
Wt: 9.0
Vis: 48
WL: 6.8
Ch: 1,300
LCM: 3#

Sweden Bump @ 3687 F

RTD 3688 (-1572)

Sweden Bump @ 3687 F