

API # 15-163-24039-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Roy/Gager #3

Location: 2130' FNL & 2280' FWL Section 9-7S-20W

County: Rooks

State: Kansas

Rig No.: 8 Contractor: WW Drilling, LLC

Tool Pusher: Sid Deutscher 785-259-2382

Drill Collars: 14 Size: 6 1/4 x 2 1/4

Rig Phone: 785-259-0816

Make Pump: Emsco D-375

Liner & Stroke: 6 x 14

Spud 5/17/2012 @ 2:30 pm

Approx. TD: 3700 Elevation: 2157

K.B. 2162

KB Hole Complete: 5/21/12 @ 6:15 pm

Mud Co.: Andy's

Mud Engineer: Ken Rupp

Water Pond

Date	05/17/12	05/18/12	05/19/12	05/20/12	05/21/12	05/22/12			
Days	1-spud	2-drlg	3-drlg	4-ctch	5-drlg	6-lddp			
Depth		590	2685	3387	3500	3678			
Ft. Cut		590	2095	702	113	178			
D.T.									
D.T.		.75-wop							
C.T.				3.5	18.5	14			
Bit Wt.	all	15,000	30,000	35,000	35,000				
RPM	100	90	85	85	85				
Pressure	450	500	750	750	775				
SPM	60	58	58	58	58				
Mud Cost			4510	7897	7897	8112			
Mud Wl.		8.8	9.1	9	9.2				
Viscosity		28	28	58	60				
Water Loss				7.6	60				
Chlorides				500	7.6				
L.C.M.				4#	800				
Dev. Sur		.75"-218			3#				
Dev. Sur					1/4"-3387	1"-3678			
Fuel	2200	2050	1700	3100	2900	2600			
Water-Pit		3'	3'	3'	3'	3'			
ACC Bit Hrs.		3	25	43.75	49	58.5			
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm			
Weather	clear	clear	clear	clear	clear	clear			

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	218	218	2.75	2.75	RR	102610	
2	7 7/8	Sm - F-27	3678	3460	58.5	61.25	New	PX 3204	
3								60 FPH	
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
217	8 5/8	150	Common, 3% cc, 2% gel	7:15 PM	3:15 AM	Quality Cem. Did circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3340-3387	30	30	out		2' mud
2	3412-3468	30	30	out		5' mud
3						
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Milden delivered 5 joints of 23#, 8 5/8 lally 210.93 set @ 217'.

Remarks: Strap & weld surface by MS. Anhydrite @ 1731-1764'. Displaced @ 2802' (640 bbls), Short trip @ 3887', 35 stands (2.5 hrs), RTD 3680'. Short trip 10 stands (.75 hr). Pipe strap .94 long. LTD 3680' by Superior, logged 3 hrs. Run casing.