

Downhole Schematic for GMR 8-5D (K8W)



Project : South Piceance

API # : 05045191550000

Surface Location : NESW Sec 8 T7S - R93W 6th PM

Area : Mamm Creek

County : GARFIELD

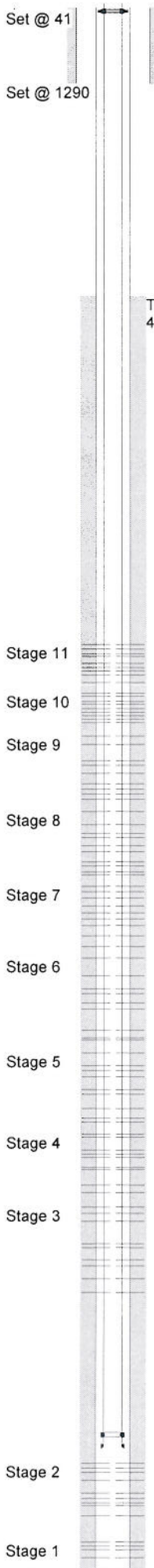
BHL : SWNW-8-7S-93 W 6th PM

As Of : 11/09/2010

GL : 7826.0 ft

KB to GL : 22.0 ft

KB : 7848.0 ft



Section	Hole	Casing	Mass	Set At	Length	Thread	Grade	Description
Casing Conductor	26.000	26.	0	41	41			Joint
Surface	12.250		0	1,290	2	LT&C		Shoe
		9.625	36	1,289	1,258	LT&C	J-55	Csng.
		9.625	36	31	5	ST&C	J-55	Mandrel
		9.625	36	26	26		J-55	Landing Joint
Production	8.750	4.5	11.6	11,039	2	LT&C	N-80	Float Shoe
		4.5	11.6	11,038	41	LT&C	N-80	Casing
		4.5	11.6	10,996	2	LT&C	N-80	Float Collar
		4.5	11.6	10,995	2,159	LT&C	N-80	Casing
		4.5	11.6	8,836	23	LT&C	N-80	Marker Jt.
		4.5	11.6	8,813	975	LT&C	N-80	Casing
		4.5	11.6	7,838	23	LT&C	N-80	Marker Jt.
		4.5	11.6	7,815	5,249	LT&C	N-80	Casing
		4.5	11.6	2,566	2,540	LT&C	P-110	Casing
		4.5	11.6	27	4	LT&C	P-110	Mandrel
		4.5	11.6	23	26	LT&C	P-110	Landing Joint

Section	Sequence	Top	Density	Blend / Additives
Cement Conductor	Scavenger	0	11.0	Mud Push II / 26bbl Water + 160 Lb D182 + 6400 Lb D031
	Tail	0	0.0	TXI HMS / D049 + 3%D020 + 0.2%D112 + 0.5%D013 + 0.5%D046 + 0.25pps D029
Surface	Lead	5,636	12.0	TXI LS / D049 + 1%D79 + 0.95%D13 + 0.5%D46 + 0.25D029
	Lead	0	12.5	G / G+2%D79+2%D46+25ppsD29
	Tail	1,005	15.8	/ D907+1.25%S001+.2%D046+.25pps D29
Production	Scavenger	0	11.1	Mud Push II / 40bbl Water + 196 Lb D182+6615lb D031
	Lead	4,910	12.0	TXI LS / D049 + 1%D79 + 0.95%D13 + 0.5%D46 + 0.25D029
	Tail	8,196	13.0	TXI HMS / D049 + 3%D020 + 0.2%D112 + 0.5%D013 + 0.5%D046 + 0.25pps D029

O.D.	Length	Depth	Description
0.000	20.00	20.00	22" KB, -2.00 correction
3.990	0.87	20.87	4 1/16 10K hanger, Wood Group
2.594	0.68	21.55	2 3/8 N80 saver sub
2.375	10,379.00	10,400.60	317 jts 2 3/8 L80 4.7# Eue Tbg
3.063	0.95	10,401.50	1.81 F-Nipple
2.375	32.88	10,434.40	1 jt 2 3/8 L80 4.7# Eue Tbg
3.063	0.92	10,435.30	Top 1/2 pump off bit sub
3.250	1.21	10,920.00	Btm 1/2 POBS & 3 3/4" Mill

Stage	Date	From	To	Shots
Stage 1	10/11/2010	10,850	10,851	3
		10,832	10,833	3
		10,824	10,825	3
		10,816	10,817	3
		10,808	10,809	3
		10,772	10,773	3
		10,748	10,749	3
		10,738	10,739	3
		10,726	10,727	3
Stage 5	10/18/2010	9,484	9,485	3
		9,472	9,473	3
		9,444	9,445	3
		9,402	9,403	3
		9,388	9,389	3
		9,350	9,351	3
		9,332	9,333	3
		9,318	9,319	3
		9,280	9,281	3
Stage 6	10/21/2010	9,242	9,243	3
		9,236	9,237	3
		9,214	9,215	3
		9,152	9,153	3
		9,134	9,135	3
		9,106	9,107	3
		9,092	9,093	3
		9,054	9,055	3
		9,002	9,003	3
Stage 7	10/28/2010	8,968	8,969	3
		8,936	8,937	3
		8,906	8,907	3
		8,886	8,887	3
		8,868	8,869	3
		8,848	8,849	3
		8,824	8,825	3
		8,806	8,807	3
		8,790	8,791	3
Stage 8	10/29/2010	8,756	8,757	3
		8,748	8,749	3
		8,730	8,731	3
		8,718	8,719	3
		8,688	8,689	3
		8,670	8,671	3
		8,646	8,647	3
		8,634	8,635	3
		8,608	8,609	3
		8,570	8,571	3
Stage 9	11/01/2010	8,534	8,535	3
		8,518	8,519	3
		8,504	8,505	3
		8,488	8,489	3
		8,458	8,459	3
		8,434	8,435	3
		8,420	8,421	3
		8,372	8,373	3
		8,348	8,349	3
Stage 2	10/13/2010	10,648	10,649	3
		10,618	10,619	3
		10,610	10,611	3
		10,596	10,597	3
		10,580	10,581	3
		10,542	10,543	3
		10,518	10,519	3
		10,506	10,507	3
		10,492	10,493	3
Stage 3	10/16/2010	9,988	9,989	3
		9,948	9,949	3
		9,910	9,911	3
		9,892	9,893	3
		9,856	9,857	3
		9,844	9,845	3
		9,778	9,779	3
		9,754	9,755	3
		9,736	9,737	3
Stage 4	10/18/2010	9,692	9,693	3
		9,670	9,671	3
		9,624	9,625	3
		9,618	9,619	3

Stage	Date	From	To	Shots
Stage 1	10/13/2010	10,726	10,851	27
Stage 2	10/16/2010	10,492	10,649	27
Stage 3	10/18/2010	9,736	9,989	27
Stage 4	10/18/2010	9,520	9,693	27
Stage 5	10/21/2010	9,280	9,485	27
Stage 6	10/28/2010	9,002	9,243	27
Stage 7	10/29/2010	8,790	8,969	27
Stage 8	11/01/2010	8,570	8,757	27
Stage 9	11/01/2010	8,348	8,535	27
Stage 10	11/02/2010	8,222	8,309	27

Frac Summary
 Stage 1 : 10,726 - 10,851, 27 - 0.340" shots, 8239 bbls of Slickwater, 110200 lbs of 20-40 Sand Report Date: 10/13/2010
 Stage 2 : 10,492 - 10,649, 27 - 0.340" shots, 8259 bbls of Slickwater, 109200 lbs of 20-40 Sand Report Date: 10/16/2010
 Stage 3 : 9,736 - 9,989, 27 - 0.340" shots, 3566 bbls of Slickwater, 46000 lbs of 20-40 Sand Report Date: 10/18/2010
 Stage 4 : 9,520 - 9,693, 27 - 0.340" shots, 4529 bbls of Slickwater, 60000 lbs of 20-40 Sand Report Date: 10/18/2010
 Stage 5 : 9,280 - 9,485, 27 - 0.340" shots, 8013 bbls of Slickwater, 109000 lbs of 20-40 Sand Report Date: 10/21/2010
 Stage 6 : 9,002 - 9,243, 27 - 0.340" shots, 7412 bbls of Slickwater, 102600 lbs of 20-40 Sand Report Date: 10/28/2010
 Stage 7 : 8,790 - 8,969, 27 - 0.340" shots, 6555 bbls of Slickwater, 89500 lbs of 20-40 Sand Report Date: 10/29/2010
 Stage 8 : 8,570 - 8,757, 27 - 0.340" shots, 7233 bbls of Slickwater, 89200 lbs of 20-40 Sand Report Date: 11/01/2010
 Stage 9 : 8,348 - 8,535, 27 - 0.340" shots, 8362 bbls of Slickwater, 118300 lbs of 20-40 Sand Report Date: 11/01/2010
 Stage 10 : 8,222 - 8,309, 27 - 0.340" shots, 7088 bbls of Slickwater, 99000 lbs of 20-40 Sand Report Date: 11/02/2010