HALIBUT-1.

FORMATION TESTER RECOVERY DATA — FIT DATA ×

TEST No.	1
TEST DEPTH	7948
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	0	cuft
Condensate	—	cc
Oil	—	cc
Water	19,900	cc
Mud	600	cc
Sand	trace	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	2750	psi
Sampling Time	39.9	min
Final Shut in	0150	psi
Shut in Time	7.4	min
Hydrostatic	4800	psi
Surface Chamber	16	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	0.178 @ 180	°F
Equivalent Cl	14,000	ppm

15% formation water

MUD FILTRATE DATA

Rmf	.955 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS permeability = 9.2 md
water productive zone

FORMATION TESTER RECOVERY DATA

TEST No.	2
TEST DEPTH	7911
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	0	cuft
Condensate	—	cc
Oil	—	cc
Water	—	cc
Mud	3,000	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	—	psi
Sampling Time	—	min
Final Shut in	—	psi
Shut in Time	—	min
Hydrostatic	4950	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	— @ —	°F
Equivalent Cl	—	ppm

MUD FILTRATE DATA

Rmf	.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS Unable to seat packer - mud run

FORMATION TESTER RECOVERY DATA

TEST No.	3
TEST DEPTH	7893
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	—	cuft
Condensate	—	cc
Oil	—	cc
Water	—	cc
Mud	—	cc
Sand	—	cc

TOOL DATA

Type of tool	FTM-B
Type of Sample shot	
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	—	psi
Sampling Time	—	min
Final Shut in	—	psi
Shut in Time	—	min
Hydrostatic	—	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	— @ —	°F
Equivalent Cl	—	ppm

MUD FILTRATE DATA

Rmf	— @ —	°F
Equivalent Cl	—	ppm
Rw	— @ —	°F
Equivalent Cl	—	ppm

REMARKS Flowline Valve Failure
No Test

FORMATION TESTER RECOVERY DATA

TEST No.	4
TEST DEPTH	7893
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	0	cuft
Condensate	—	cc
Oil	50	cc
Water	20,050	cc
Mud	400	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling (Average)	2850	psi
Sampling Time	39	min
Final Shut in	3275	psi
Shut in Time	8	min
Hydrostatic	4850	psi
Surface Chamber	150	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	0.365 @ 180	°F
Equivalent Cl	6300	ppm

NO FORMATION WATER RECOVERED - ONLY FILTRATE RECOVERED - k = 3 md.

MUD FILTRATE DATA

Rmf	0.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	0.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS DNPE = 5 BOPD/FT clean oil - no water cut

FORMATION TESTER RECOVERY DATA

TEST No.	5
TEST DEPTH	7786
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	5.3	cuft
Condensate	—	cc
Oil	12,750	cc
Water	5,500	cc
Mud	500	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	5175	psi
Sampling Time	40	min
Final Shut in	3450	psi
Shut in Time	24.5	min
Hydrostatic	4625	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	5.3	cuft
Oil		
API Gravity	41.5 @ 60	°F
GOR	66	
Water		
Rrf (Filtered)	0.485 @ 180	°F
Equivalent Cl	4,900	ppm

all water recovered is filtrate

MUD FILTRATE DATA

Rmf	0.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	0.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS DNPE 12 BOPD/FT
clean oil k = 7 md

FORMATION TESTER RECOVERY DATA

TEST No.	6
TEST DEPTH	7690
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	—	cuft
Condensate	—	cc
Oil	800	cc
Water	17,900	cc
Mud	1,500	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	3750	psi
Sampling Time (app)	40	min
Final Shut in	3750	psi
Shut in Time (app)	24	min
Hydrostatic	5000	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	0.67 @ 180	°F
Equivalent Cl	3500	ppm

All water recovered is Filtrate

MUD FILTRATE DATA

Rmf	0.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	0.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS DNPE Greater than 100 BOPD/FT
k Greater than 45 md

FORMATION TESTER RECOVERY DATA

TEST No.	7
TEST DEPTH	7912
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	—	cuft
Condensate	—	cc
Oil	"very faint" scum	cc
Water	20,000	cc
Mud	500	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	3425	psi
Sampling Time (app)	40	min
Final Shut in	3425	psi
Shut in Time (app)	37	min
Hydrostatic	4700	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	—	cuft
Oil		
API Gravity	— @ —	°F
GOR	—	
Water		
Rrf (Filtered)	0.532 @ 180	°F
Equivalent Cl	4500	ppm

all water recovered is filtrate

MUD FILTRATE DATA

Rmf	0.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	0.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS water cut oil productive greater than 100 BPD/FT
k greater than 45 md

FORMATION TESTER RECOVERY DATA

TEST No.	8
TEST DEPTH	7562
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	2.7	cuft
Condensate	—	cc
Oil	5,000	cc
Water	11,000	cc
Mud	400	cc
Sand	—	cc

TOOL DATA

Type of tool	FIM-A
Type of Sample shot	2 Follower Packer
Sample Unit size	20,500 cc
Choke size	4 X 0.015

PRESSURE DATA

Initial Shut in	—	psi
Shut in Time	—	min
Sampling	5525	psi
Sampling Time (app)	40	min
Final Shut in	5525	psi
Shut in Time (app)	20	min
Hydrostatic	4500	psi
Surface Chamber	—	psi

RECOVERY ANALYSIS

Free Gas	2.7	cuft
Oil		
API Gravity	37.7 @ 60	°F
GOR	143	
Water		
Rrf (Filtered)	0.53 @ 180	°F
Equivalent Cl	4,500	ppm

Filtrate water recovery

MUD FILTRATE DATA

Rmf	0.355 @ 180	°F
Equivalent Cl	6,600	ppm
Rw	0.055 @ 180	°F
Equivalent Cl	53,000	ppm

REMARKS clean oil greater than 100 BOPD/FT k greater than 45 md