Schlumberger

REPEAT FORMATION TESTER

COUNTY
FIELD
LOCATION
WELL
COMPANY

COMPANY AMERICAN QUASAR

RECEIVED-PTLD
FEB 15 1980
DEPT OF GEOLOGY & MINERAL INDUS.

WELL WALL 24-13
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION NW SW OF SEC. 24

API SERIAL NO.	SEC.	TWP	RANGE
	24	6N	5W

Other Services:
DIL
FDC-CNL-GR
BHC-GR
HDT

Permanent Datum: GROUND LEVEL ; Elev.: 534
Log Measured From K.B. Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 545
D.F.
G.L. 534

Date	1-22-80			
Run No.	ONE			
Test No's.	2			
Type Fluid in Hole	LIGNO			
Dens. | Visc.	9	50		
pH | Fluid Loss	11	8.0		
Source of Sample	FLOW LINE			
R_m @ Meas. Temp.	.83	@ 58 °F	@	°F
R_{mf} @ Meas. Temp.	.81	@ 58 °F	@	°F
R_{mc} @ Meas. Temp.	1.37	@ 57 °F	@	°F
Source: R_{mf} | R_{mc}	M	M		
R_m @ BHT	.56	@ 90 °F	@	°F
TIME Circulation Stopped	1530	1-21-80		
TIME Logger on Bottom	0200	1-22-80		
Max. Rec. Temp.	90 °F		°F	
Recorded By	CASTELLOW - LINDGREN			
Witnessed By	BLAZZARD - BRYER			

Run No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	6¼	TD	CSG				

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE	
Operating rig time	81	
Logging Truck No.	8128	
F.T. Truck No.	1554	
F.T. Engineer	NA	
F.T. Operator	L. CASTELLOW	
Location	CASPER WY. 4101	

REMARKS: S. O. # 123876

EQUIPMENT DATA

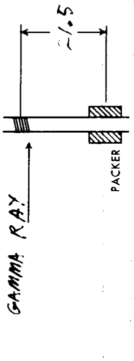
Run No.	ONE	
RFP No.	35	
RPP No.	35	
RVP No.	35	
RFM No.	35	
RFC No.	35	

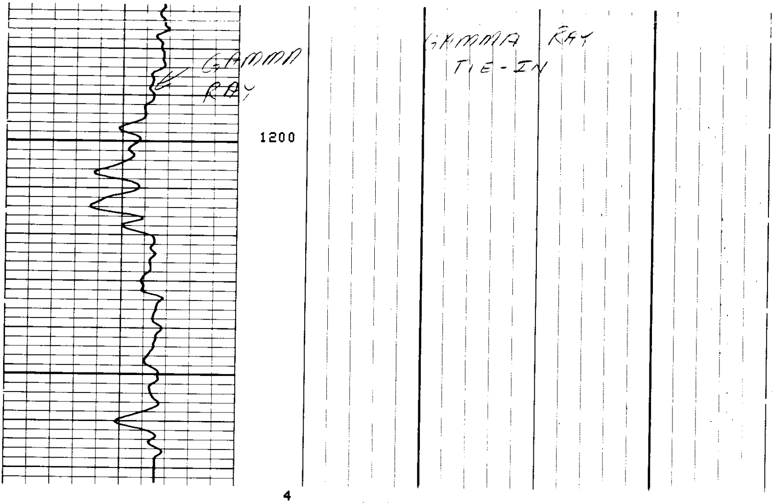
RECORDED TESTER POSITION

Test No. 1

GAMMA RAY
0 150

DEPTHS





4
4
4
4

ANALOG PRESSURE RECORDING, PSI

0 → 10000

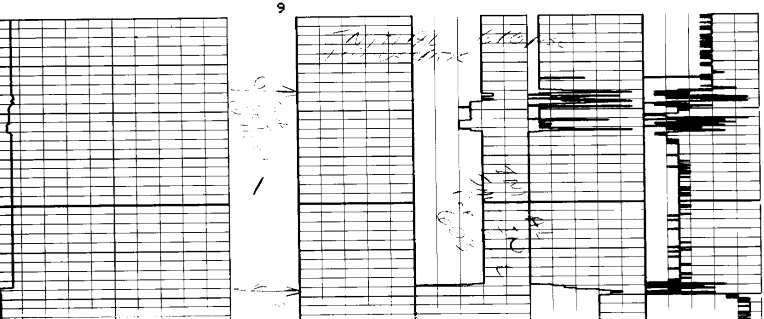
TIME IN MINUTES

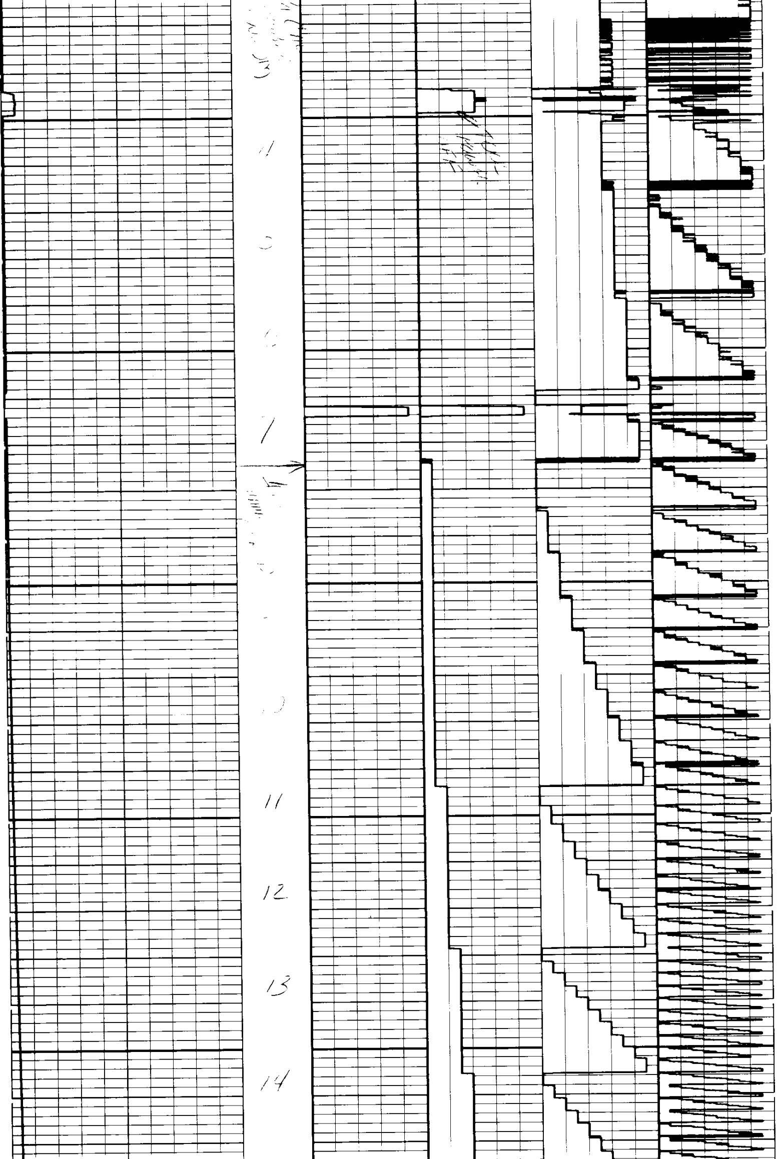
DIGITAL PRESSURE RECORDING, PSI

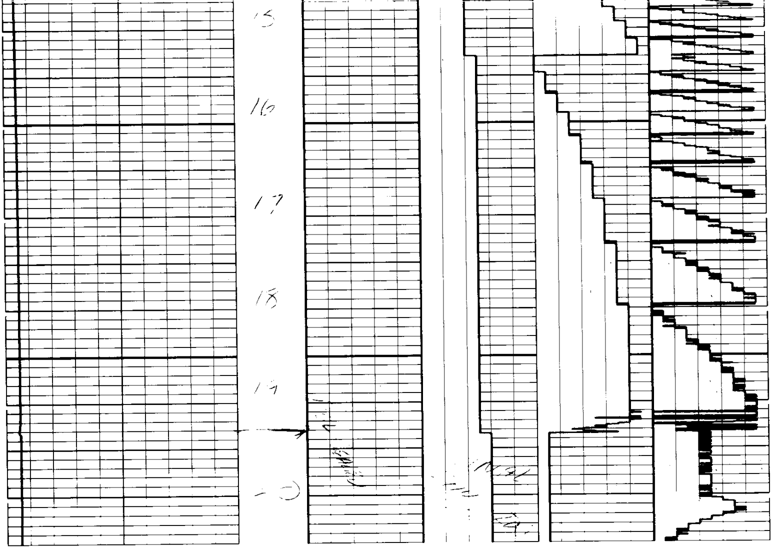
0 → 10000
0 → 1000
0 → 100
0 → 10

Test No.__________

9
9
9
9
9



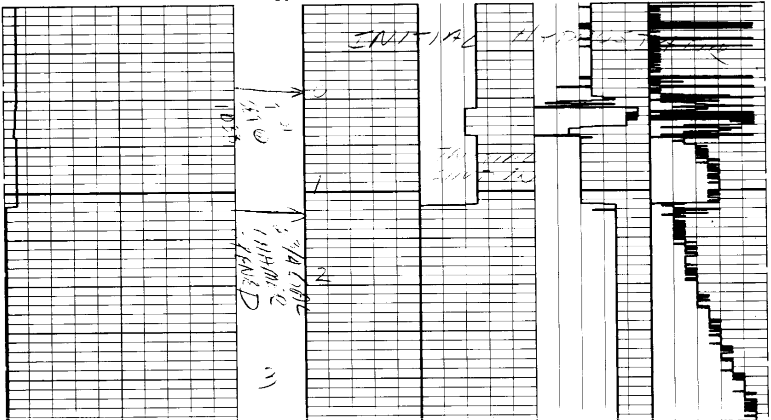


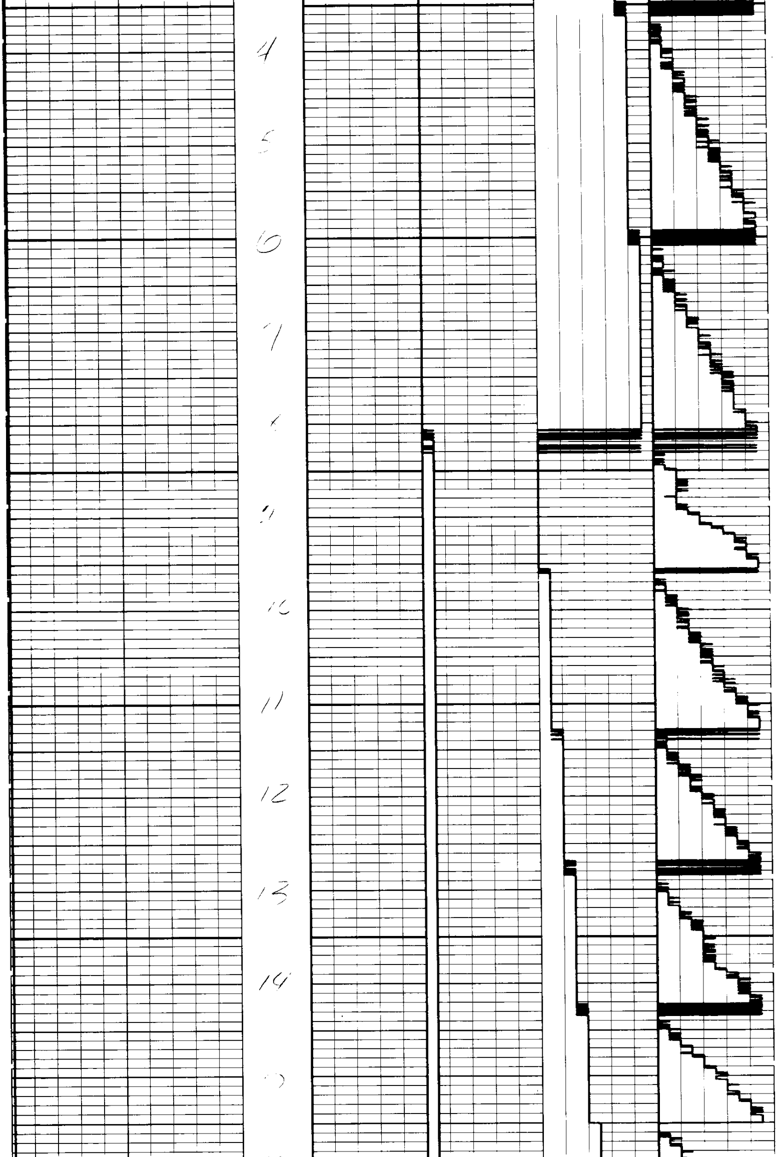


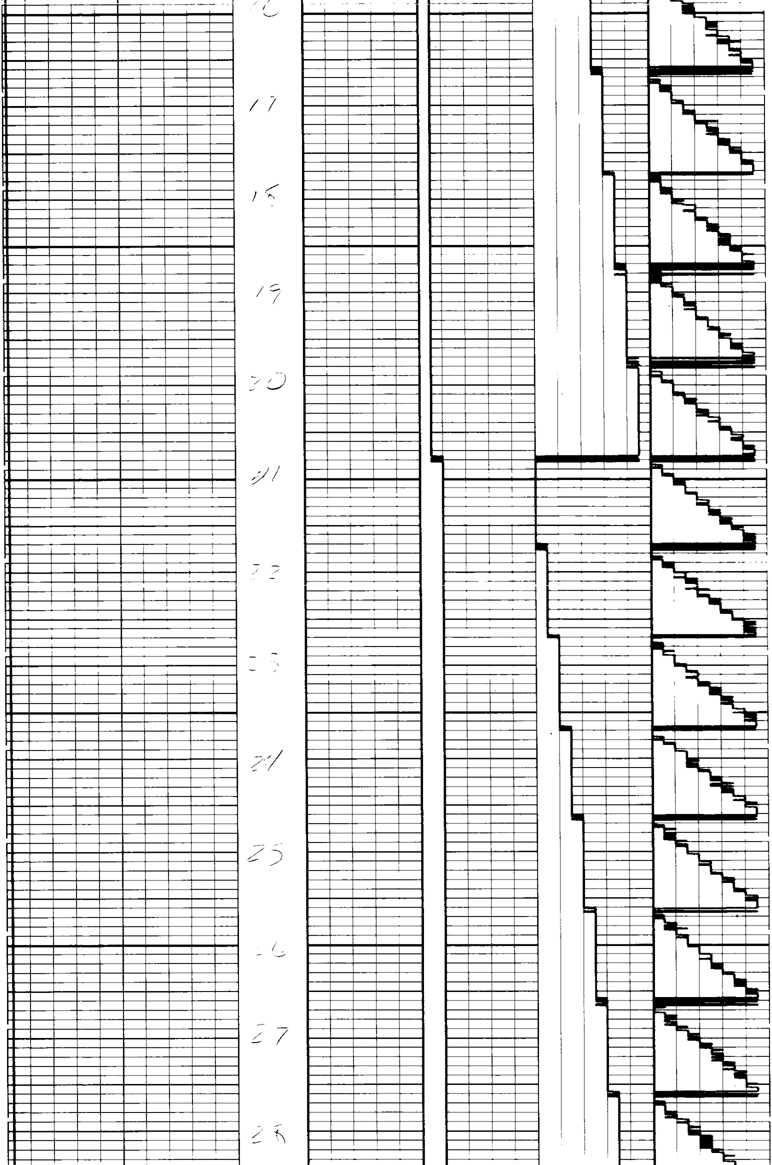
9
9
9
9
9
9

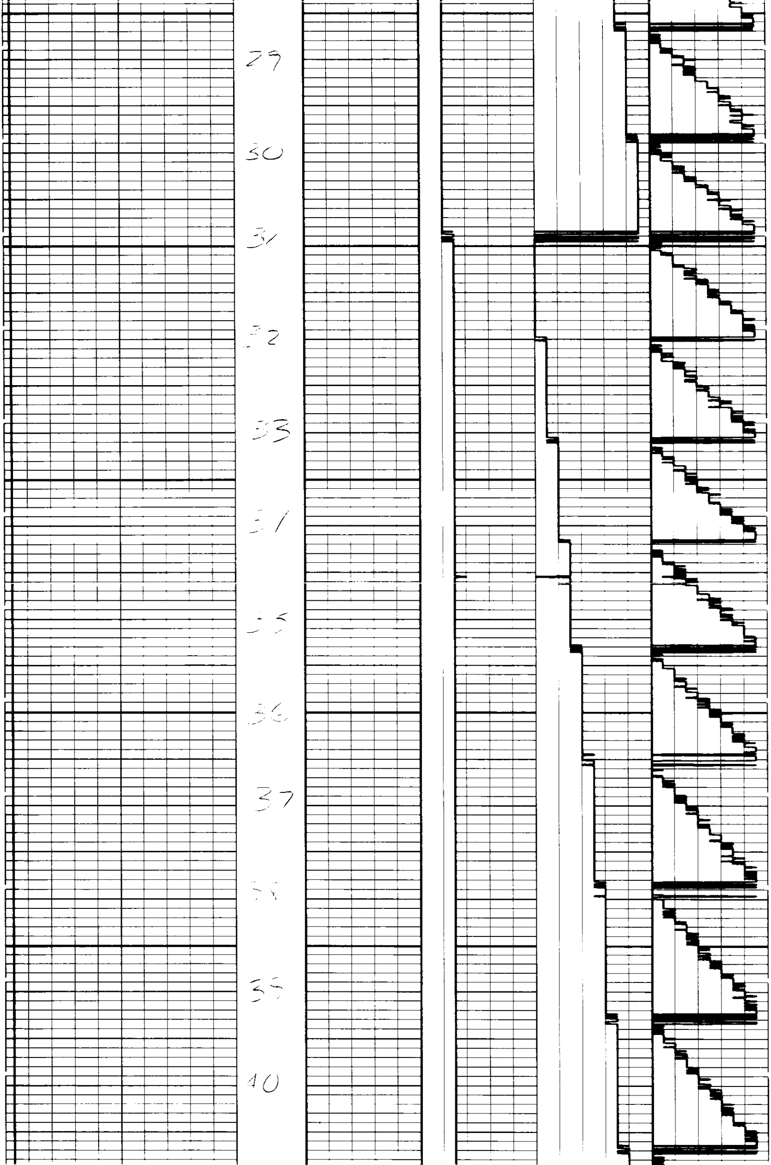
10
10
10
10
10
10

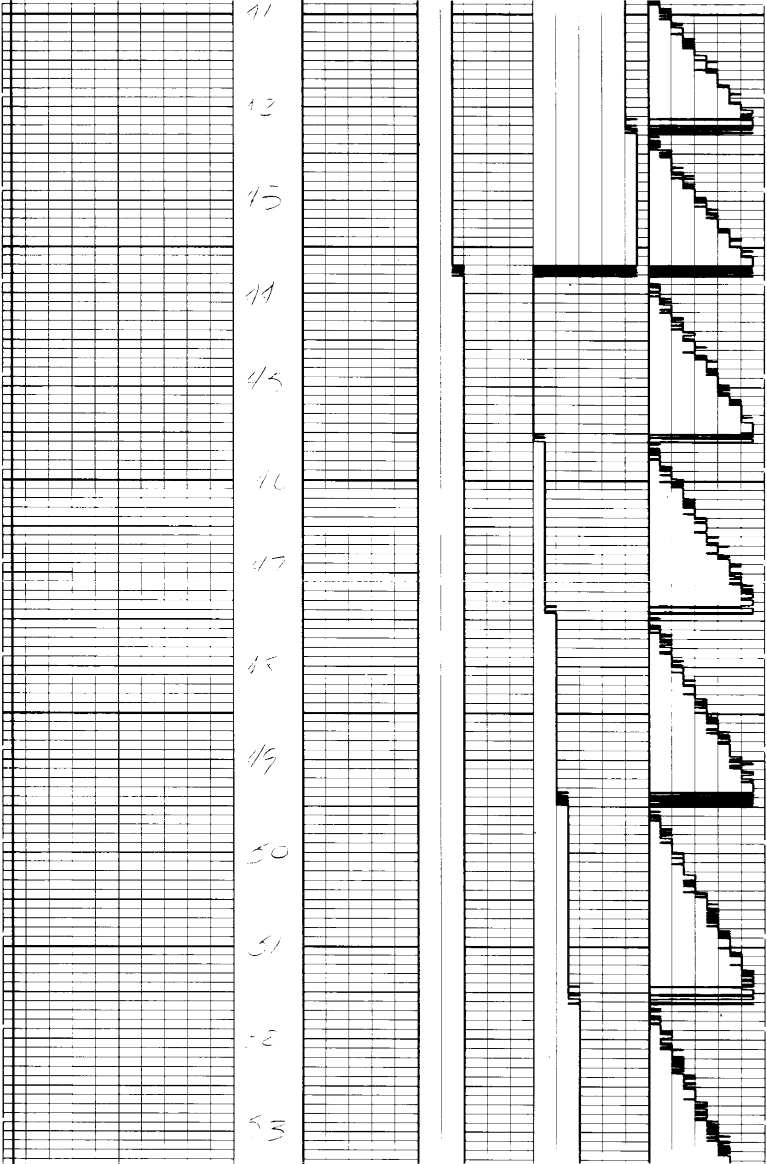
TEST #2 @ [illegible]

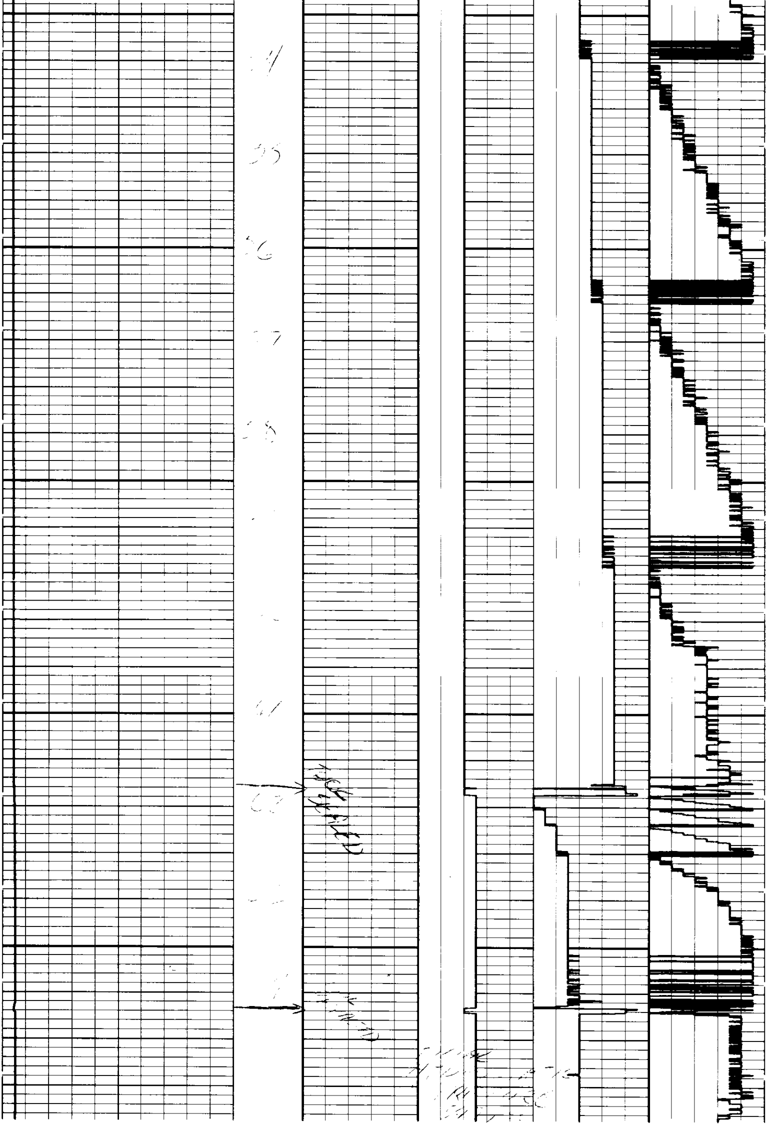












10
10
10

REPEAT FORMATION TESTER PRESSURE TEST SUMMARY

Pressure Test No.	Depth	Pressure	Build-Up Time	Remarks
ONE	1170	618		
TWO	1170	618		
THREE	1165	603	20 SEC.	FILLED 1 GAL CHMB
FOUR	1038	546	20 SEC.	FILLED 2 3/4 CHMB

REPEAT FORMATION TESTER RECOVERY AND INTERPRETATION DATA

FLUID TEST NO. ONE

TEST DEPTH 1165

RECOVERY DATA

Gas (Total)	-	cuft
Condensate	-	cc
Oil	-	cc
Water	3600	cc
Mud	-	cc
Sand	-	cc

FORMATION AND LOG DATA

Formation	SAND	
Porosity	37	%
Rt	2.8 @ 73	°F
Rw	.25 @ 73	°F
Chart Cl	25K	ppm
Titrated Cl	-	ppm
Water Saturation	100	%

PRESSURE DATA

Initial Shut in	603	psi
Shut In Time	20 SEC.	mins
Sampling Range	68 To 588	psi
Sampling Time	18	mins
Final Shut In	603	psi
Shut In Time	1	mins
Hydrostatic	618	psi
Surface Chamber	1000	psi

RECOVERY ANALYSIS

Free Gas	-	cuft
Oil		
API Gravity	- ° @ -	°F
GOR	-	
Water		
Rrf (filtered)	.18 @ 51	°F
Chart Cl	8K	ppm
Titrated Cl	-	ppm
Formation Water	100	%
Water Cut	100	%

MUD FILTRATE DATA

Rmf	.86 @ 58	°F
Chart Cl	9K	ppm
Titrated Cl	-	ppm

TOOL DATA

Sample Unit Size	3600	cc
Choke Size	N.A.	
Probe Filter	.18	
Restrictor	☐ Yes ☒ No	

RESULTS INDICATE THAT HIGH WATER CUT MAY BE EXPECTED AT THIS DEPTH.

REMARKS PERMEABLE SAND WITH HIGH WATER CUT
CONTAINS HIGH AMOUNT OF MUD FILTRATE

GAS ANALYSIS

Free Gas	-	Cuft
Solution Gas	-	Cuft
Total Gas	-	Cuft

REPEAT FORMATION TESTER RECOVERY AND INTERPRETATION DATA

FLUID TEST NO. TWO

TEST DEPTH 1038

RECOVERY DATA

Gas (Total)	1.8	cuft
Condensate		cc
Oil		cc
Water	6000	cc
Mud	-	cc
Sand	-	cc

FORMATION AND LOG DATA

Formation	SAND	
Porosity	37	%
Rt	3.5 @ 72	°F
Rw	.25 @ 72	°F
Chart Cl	25K	ppm
Titrated Cl	-	ppm
Water Saturation	80	%

PRESSURE DATA
Initial Shut in 546 psi
Shut In Time 1 mins
Sampling Range 72 To psi
Sampling Time 60 mins
Final Shut In 478 psi
Shut In Time 1 1/2 mins
Hydrostatic 555 psi
Surface Chamber 1000 psi

RECOVERY ANALYSIS
Free Gas 1.8 cuft
Oil
API Gravity – °@ – °F
GOR –
Water
Rrf (filtered) .37 @ 68 °F
Chart Cl 19K ppm
Titrated Cl – ppm
Formation Water %
Water Cut 60 %

MUD FILTRATE DATA
Rmf .86 @ 58 °F
Chart Cl 9K ppm
Titrated Cl – ppm

TOOL DATA
Sample Unit Size 9900 cc
Choke Size N.A.
Probe Filter .18
Restrictor Yes ☒ No

RESULTS INDICATE THAT GAS SAND WITH HIGH WATER CUT MAY BE EXPECTED AT THIS DEPTH.

REMARKS PERMEABLE GAS SAND WITH HIGH WATER CUT

GAS ANALYSIS
Free Gas – Cuft
Solution Gas – Cuft
Total Gas – Cuft

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

COMPANY AMERICAN QUASAR
WELL WALL 24-13
FIELD MIST
COUNTY COLUMBIA STATE OREGON

Schlumberger

REPEAT FORMATION TESTER