



CEMENT JOB REPORT

CUSTOMER Roca Resource Co Inc		DATE 15-NOV-02		F.R. # 319610235		SERV. SUPV. JIMMY E WALTERS					
LEASE & WELL NAME McNEIL 1 - API 30025360440000		LOCATION SEC33 T19S R38E		COUNTY-PARISH-BLOCK Lea New Mexico							
DISTRICT Hobbs		DRILLING CONTRACTOR RIG # STAR		TYPE OF JOB Surface							
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES							
Cement Plug, Rubber, Top 8-5/8 in		Float Collar, Al Flap, 8-5/8 - 8rd		SACKS OF	SLURRY V	SLURRY 3	WATER GPS	PUMP TIME	Bbl SLURRY	Bbl MIX	
		Guide Shoe, Texas-Notched 8-5/8 in									
MATERIALS FURNISHED BY BJ											
C 4%GEL 2%CACL				650	13.5	1.74	9.17		201.5	141.97	
C 2%CACL				200	14.8	1.34	6.36		47.7	30.27	
Available Mix Water 500 Bbl. Available Displ. Fluid 500 Bbl. TOTAL 249.2 172.23											
HOLE			TBG-CSG-D.P.					COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE	
12.25		1640	8.625	24	CSG	1658	J-55	1658	1613.13		
LAST CASING			PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID		
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
								8.625	8RD	FRESH WATER	8.34
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
102.7	BBLs			490	0	0	0	0	2950	2360	RIG
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:											
PRESSURE/RATE DETAIL						EXPLANATION					
TIME HR:MIN.	PRESSURE - PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: BJ CREW ☒ CO. REP. ☒					
	PIPE	ANNULUS				TEST LINES 3000 PSI					
						CIRCULATING WELL - RIG ☒ BJ ☐					
07:34	3000					TEST LINES					
07:35	300		4	0	GEL	START GELLED WATER					
07:38	310		4.1	12	GEL	END GEL START FRESH SPACER					
07:44	310		4.2	20	H2O	END FRESH START LEAD SLURRY					
08:28	400		6.5	202	CMT	END LEAD SLURRY START TAIL SLURRY					
08:38	410		5.5	48	CMT	END TAIL SLURRY DROP PLUG					
08:39	660		8	0	H2O	START DISPLACEMENT					
08:52	600		8	70	H2O	CMT TO SURFACE					
08:54	600		3	93	H2O	SLOW RATE					
08:58	1000		3	102.7	H2O	BUMP PLUG TEST FLOAT					
						107 SKS TO SURFACE					
						THANK YOU JIMMY & CREW					
BUMPED	PSI TO BUMP	TEST FLOAT	BBL.CMT RETURNS/	TOTAL BBL. PUMP	PSI LEFT ON	SPOT TOP OUT	SERV. SUPV.				
☒ Y ☐ N	1000	☒ Y ☐ N	33	373	0	☒ Y ☐ N					

DRILL STEM TEST REPORT DATA

BOTTOM HOLE CHOKE 5/8"		SURFACE 1/8"		CUSHION		ELEVATION 3581'		G.L.	
TIME TOOL OPENED 18:25 Hrs									
RECORDER DATA									
TOOL OPEN BEFORE I.S.I.P.		10		MIN.		TYPE Electronic		CAPACITY 10000	
INITIAL SHUT-IN		1		HRS.		0		MIN.	
TOOL OPEN		1		HRS.		0		MIN.	
FINAL SHUT-IN		2		HRS.		0		MIN.	
						CLOCK: TOP		BOTTOM	
SURFACE ACTION Pre-Flow: Began with a weak blow, increased to 6" in 3 minutes, 9" in 5 minutes and 11" in 10 minutes. Final Flow: Began with a weak blow, increased slowly to 3" in 5 minutes, 6" in 15 minutes, 7 1/4" in 30 minutes; decreased to 6 1/2" in 45 minutes and 5" in 60 minutes.									
RECOVERY 90' Gas above fluid 336' Total fluid = 1.65 bbl., consisting of: 4' Oil 332' Mud cut formation water (195,000 ppm Cl.)									
SUCCESSFUL TEST Yes									

COMPANY
LEASE NAME & NO.
INTERVAL TESTED

ROCA RESOURCES CO., INC.
MCNEILL #1
4294'-4375'

COUNTY
STATE
FORMATION

LEA
NEW MEXICO
SAN ANDRES

DATE
TICKET #
TEST #

11-20-2002
7948
1

RECORDER NO. 21058				
A (INITIAL HYDROSTATIC PRESSURE)			2242	PS.I
B (INITIAL PRE-FLOW PRESSURE)			61	PS.I
C (FINAL PRE-FLOW PRESSURE)	11	MIN.	86	PS.I
D (INITIAL SHUT-IN PRESSURE)	60	MIN.	1508	PS.I
E (INITIAL FLOW PRESSURE)			98	PS.I
F (FINAL FLOW PRESSURE)	59	MIN.	224	PS.I
G (FINAL SHUT-IN PRESSURE)	121	MIN.	1440	PS.I
H (FINAL HYDROSTATIC PRESSURE)			2242	PS.I

HOLE AND MUD DATA

TOTAL DEPTH	4375'	MAIN HOLE	7 7/8"
RAT HOLE		CASING SIZE	8 5/8"
DEPTH OF CSG.	1640	TYPE MUD	Brine
MUD WT.	10.0	VISCOSITY	28
WATER LOSS		CAKE	
CHLORIDE	174,000		
RESISTIVITY	.049	@ 60	°F

SAMPLER REPORT

PRESSURE IN SAMPLER	175	PSI
BHT	93.6	°F
OIL	0	
WATER	2000	
MUD	0	
GAS	Trace	
RESISTIVITY	@	°F
CHLORIDE	195,000	PPM.
GRAVITY	* API @	°F

TOOL DATA

NO. PACKERS	2			
SIZE PACKERS	7"			
CONVENTIONAL TEST	Yes			
TYPE TOOL	DEPTH	LENGTH	I.D.	O.D.
4 1/2" XH D/P	3584		3.8	4.5
4 1/2" XH DC		643	2.3	6.0
Circulating Sub	4227	1		
Drillcollars	4257	30		
Shut-in tool	4263	6		
Sampler	4266	3		
Hydraulic Tool	4271	5		
Jars	4277	6		
Recorder	4282	5		
Packer	4288	6		
Packer	4294	6		
Perfs		)		
Elec Recorder		(		
Drillcollars		)		
Recorder	TD	81		
DRLG. CONT Star Drilling RIG# 5				

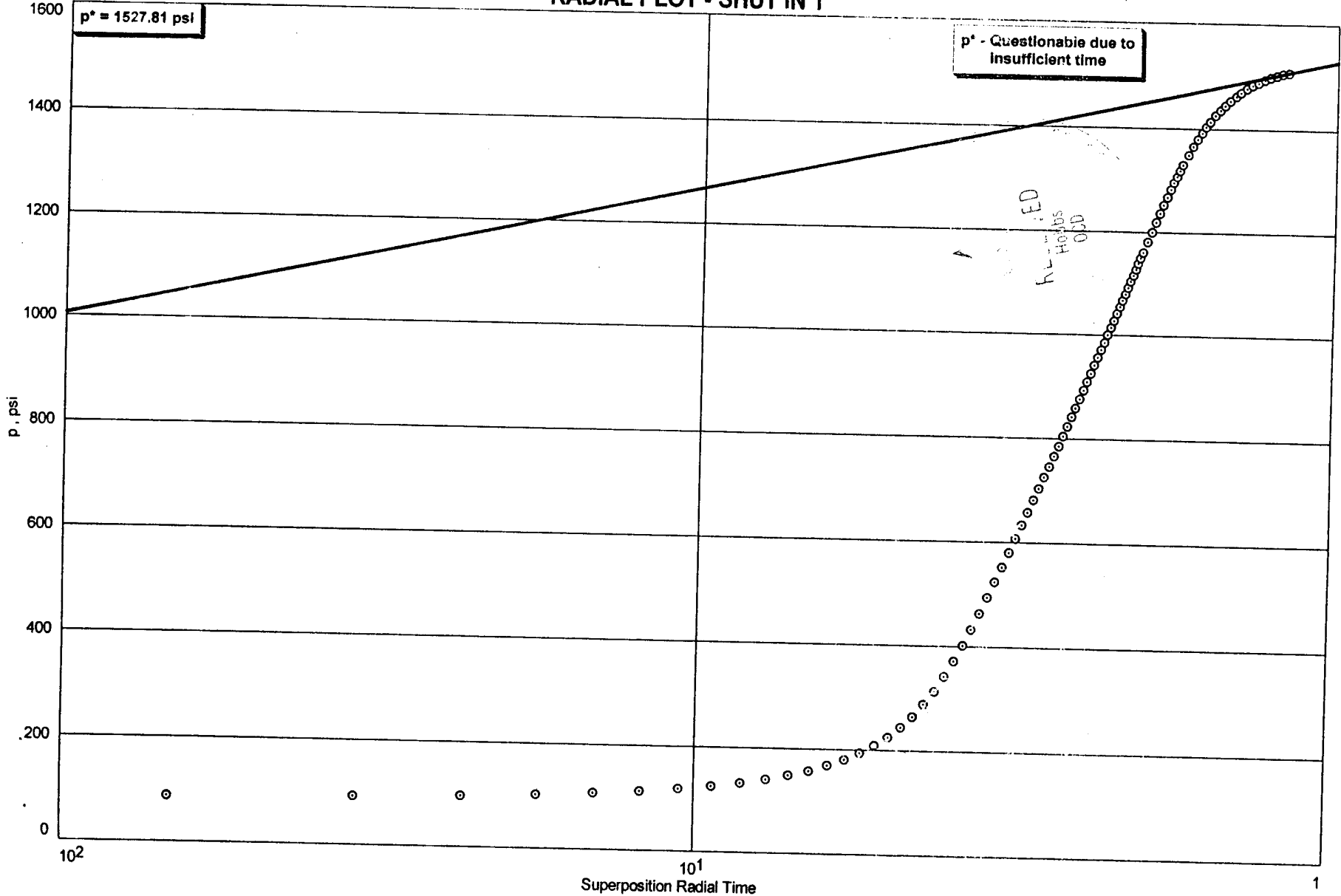
REMARKS:

TESTER Don Terhune
APPROVED BY Scott Kimbrough



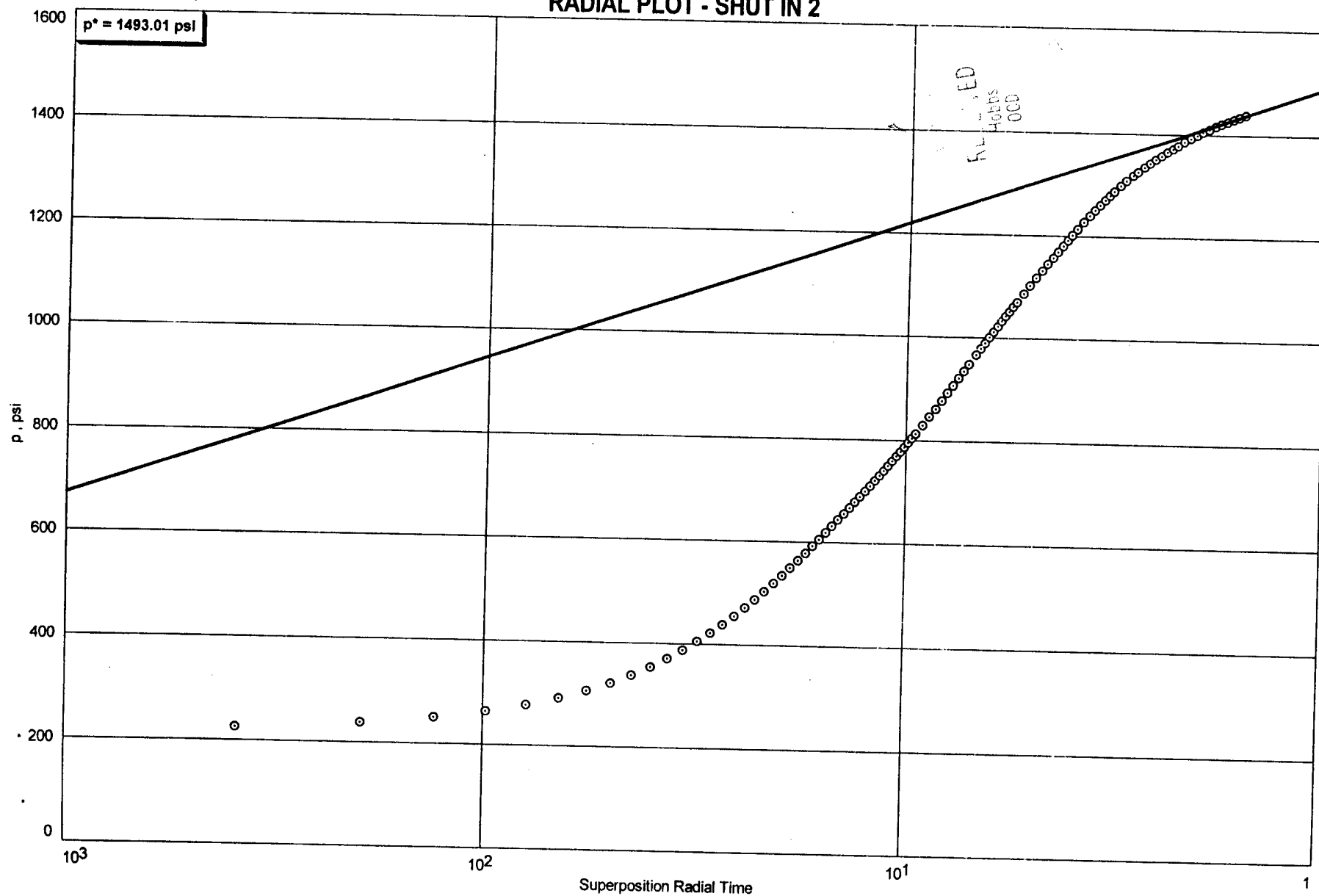
ROCA Resources Co., Inc.
McNeill 1, Dst 1, Gauge 21058

RADIAL PLOT - SHUT IN 1



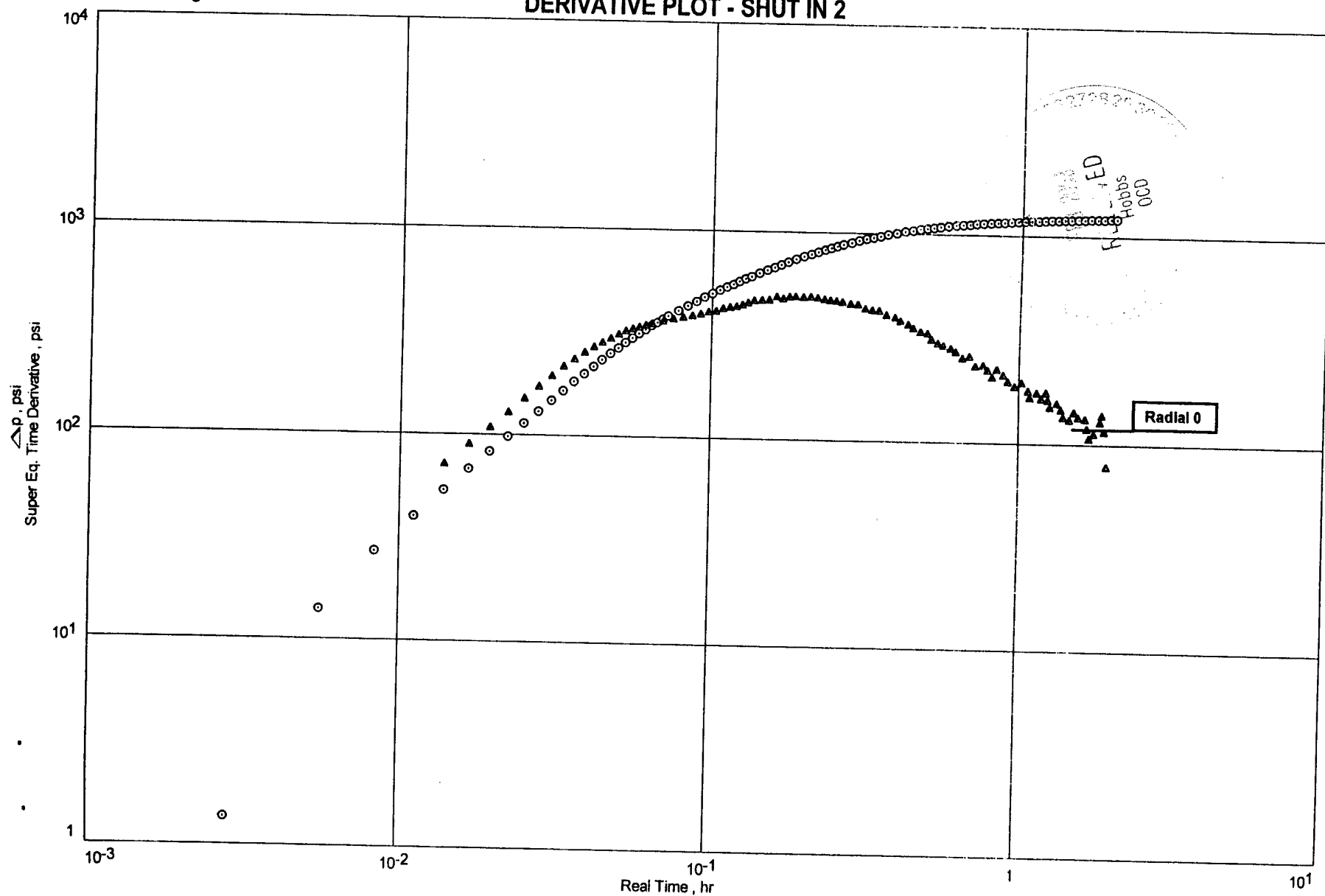
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RADIAL PLOT - SHUT IN 2



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DERIVATIVE PLOT - SHUT IN 2



ROCA Resources Co., Inc.
McNeill 1, Dst 1

